DOCUMENT RESUME

ED 144 994 TM 006 565

AUTHOR	Kettner, Norman
TITLE	Armed Services Vocational Aptitude Battery (ASVAB Form 5): Comparison with GATB and DAT Tests. Final Report May 1975-October 1976.
INSTITUTION	Air Force Human Resources Lab., Brooks AFB, Texas.
SPONS AGENCY	Air Force Human Resources Lab., Lackland AFB, Tex. Personnel Research Div.
REPORT NO	AFHRL-TR-76-78
PUB DATE	Oct 76
CONTRACT	F41609-75-C-0042
NOTE	126p.; Not available in hard copy due to small size of tables
AVAILABLE FROM	National Technical Information Service, Springfield, Virginia 22161
EDRS PRICE	MF-$0.83 Plus Postage. HC Not Available from EDRS.
DESCRIPTORS	Age Differences; *Aptitude Tests; *Comparative Analysis; *Equated Scores; Grade 10; Grade 11; Grade 12; *High School Students; Predictor Variables; Secondary Education; Sex Differences; Tables (Data); *Test Results
IDENTIFIERS	*Armed Services Vocational Aptitude Battery; Differential Aptitude Tests; General Aptitude Test Battery

ABSTRACT

Test performance of high school students on the Armed Services Vocational Aptitude Battery (ASVAB), the General Aptitude Test Battery (GATB), and the Differential Aptitude Tests (DAT) was compared. The design of the study provided for information on test intercorrelations, prediction equations for the ASVAB tests from the commercial tests and conversion tables between highly similar tests across batteries. Separate comparisons were made by grade and sex. A total of 1,232 students were tested and each student took the ASVAB and one other battery. Six of the tests in the ASVAB correlated highly with tests in the commercial batteries. The remainder of tests in the ASVAB were information type tests that had low to moderate correlations with the tests in the commercial batteries. The correlations for the males were generally higher than for the females and the correlations increased with grade. The multiple correlation coefficient in the prediction of the ASVAB tests from the commercial tests ranged from zero to .90. (Author/MV)

****
* Documents acquired by ERIC include many informal unpublished *
* materials not available from other sources. ERIC makes every effort *
* to obtain the best copy available. Nevertheless, items of marginal *
* reproducibility are often encountered and this affects the quality *
* of the microfiche and hardcopy reproductions ERIC makes available *
* via the ERIC Document Reproduction Service (EDRS). EDRS is not *
* responsible for the quality of the original document. Reproductions *
* supplied by EDRS are the best that can be made from the original. *
****

AFHRL-TR-76-78

AIR FORCE

HUMAN RESOURCES

LABORATORY

ED144994

TM006 565

ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB FORM 5): COMPARISON WITH GATB AND DAT TESTS

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

By

Norman Kettner

Contemporary Research, Incorporated
1100 Glendon Avenue
Los Angeles, California 90024

PERSONNEL RESEARCH DIVISION
Lackland Air Force Base, Texas 78236

October 1976
Final Report for Period May 1975 – October 1976

Approved for public release; distribution unlimited.

AIR FORCE SYSTEMS COMMAND
BROOKS AIR FORCE BASE, TEXAS 78235

NOTICE

When US Government drawings, specifications, or other data are used for any purpose other than a definitely related Government procurement operation, the Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise, as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

This final report was submitted by Contemporary Research, Incorporated, 1100 Glendon Avenue, Los Angeles, California 90024, under contract F41609-75-C-0042, project 7719, with Personnel Research Division, Air Force Human Resources Laboratory (AFSC), Lackland Air Force Base, Texas 78236. Dr. Malcolm James Ree, Selection and Classification Systems Branch, was the contract monitor.

This report has been reviewed and cleared for open publication and/or public release by the appropriate Office of Information (OI) in accordance with AFR 190-17 and DoDD 5230.9. There is no objection to unlimited distribution of this report to the public at large, or by DDC to the National Technical Information Service (NTIS).

This technical report has been reviewed and is approved.

TYREE H. NEWTON, Colonel, USAF
Chief, Personnel Research Division

Approved for publication.

DAN D. FULGHAM, Colonel, USAF
Commander

REPORT DOCUMENTATION PAGE

READ INSTRUCTIONS BEFORE COMPLETING FORM

1. REPORT NUMBER: AFHRL-TR-76-78	2. GOVT ACCESSION NO.
3. RECIPIENT'S CATALOG NUMBER	
4. TITLE (and Subtitle): ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB FORM 5): COMPARISON WITH GATB AND DAT TESTS	5. TYPE OF REPORT & PERIOD COVERED: Final, May 1975 – October 1976
	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s): Norman Kettner	8. CONTRACT OR GRANT NUMBER(s): F41609-75-C-0042
9. PERFORMING ORGANIZATION NAME AND ADDRESS: Contemporary Research, Incorporated, 1200 Glendon Avenue, Los Angeles, California 90024	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: 62703F, 77191007
11. CONTROLLING OFFICE NAME AND ADDRESS: HQ Air Force Human Resources Laboratory (AFSC), Brooks Air Force Base, Texas 78235	12. REPORT DATE: October 1976
	13. NUMBER OF PAGES: 104
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office): Personnel Research Division, Air Force Human Resources Laboratory (AFSC), Lackland Air Force Base, Texas 78236	15. SECURITY CLASS. (of this report): Unclassified
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

ability testing
aptitude testing
Armed Services Vocational Aptitude Battery (ASVAB)
Differential Aptitude Tests (DAT)
General Aptitude Test Battery (GATB)
multiple aptitude battery
test equating

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

The purpose of this study was to compare test performance of high school students on the Armed Services Vocational Aptitude Battery (ASVAB) with the General Aptitude Test Battery (GATB) and the Differential Aptitude Tests (DAT). The design of the study provided for information on test intercorrelations, prediction equations for the ASVAB tests from the commercial tests and conversion tables between highly similar tests across batteries. Separate comparisons were made by grade and sex. A total of 1,232 students were tested and each student took the ASVAB and one other battery. Six of the tests in the ASVAB correlated highly with tests in the commercial batteries. The remainder of tests in the ASVAB were information type tests that had low to moderate correlations with the tests in the commercial batteries. The correlations for the males were generally higher than for

Item 20 (Continued)

the females and the correlations increased with grade. The multiple correlation coefficient in the prediction of the ASVAB tests from the commercial tests ranged from zero to .90.

PREFACE

This work was performed under Project 7719, Air Force Personnel Systems Development on Selection, Assignment, Evaluation, Quality Control, Retention, Promotion, and Utilization; Task 771910, Armed Forces Operational Selection Tests.

This study was conducted under Contract No. F41609-75-C-0042 by Contemporary Research, Inc. Dr. Norman Kettner was the principal investigator for Contemporary Research, Inc., and Mr. Harald Jensen acted as the contract monitor for the Personnel Research Division of the Air Force Human Resources Laboratory.

Appreciation is expressed to Mrs. Iris Massey and Dr. Malcolm Ree for their assistance in the conduct of this research.

TABLE OF CONTENTS

		Page
Preface		1
I.	Introduction	7
II.	Procedures	7
	Description of the Tests	7
	Description of the High Schools	7
	Study Design	9
	Testing Procedures	12
	Analysis Procedures	12
III.	Results and Discussion	12
	Univariate Statistics	12
	Correlations	22
	Prediction Equations	29
	Equipercentile Conversion	39
IV.	Summary and Conclusions	39
References		102

LIST OF TABLES

Table		Page
1	Components of the Tests	8
2	Sample Size Breakdown	10
3	Study Design	11
4	Means and Standard Deviations for Tenth Grade	13
5	Means and Standard Deviations for Eleventh Grade	14
6	Means and Standard Deviations for Twelfth Grade	15
7	Univariate Statistics - Tenth Grade Males	16
8	Univariate Statistics - Tenth Grade Females	17
9	Univariate Statistics - Eleventh Grade Males	18
10	Univariate Statistics - Eleventh Grade Females	19
11	Univariate Statistics - Twelfth Grade Males	20
12	Univariate Statistics - Twelfth Grade Females	21
13	Tenth Grade Intercorrelation - ASVAB and GATB	23
14	Eleventh Grade Intercorrelation - ASVAB and GATB	24

Table		Page
15	Twelfth Grade Intercorrelation - ASVAB and GATB	25
16	Tenth Grade Intercorrelation - ASVAB and DAT	26
17	Eleventh Grade Intercorrelation - ASVAB and DAT	27
18	Twelfth Grade Intercorrelation - ASVAB and DAT	28
19	Multiple Correlation Coefficients - Tenth Grade	30
20	Multiple Correlation Coefficients - Eleventh Grade	31
21	Multiple Correlation Coefficients - Twelfth Grade	32
22	Prediction Equations - Tenth Grade	33
23	Prediction Equations - Eleventh Grade	35
24	Prediction Equations - Twelfth Grade	37
25	Highest Correlations with ASVAB Tests - Tenth Grade	41
26	Highest Correlations with ASVAB Tests - Eleventh Grade	42
27	Highest Correlations with ASVAB Tests - Twelfth Grade	43
28	Raw Scores for ASVAB-General Information and Equipercentile Raw Scores for GATB Tests	44
29	Raw Scores for ASVAB-General Information and Equipercentile Raw Scores for DAT Tests	45
30	Raw Scores for ASVAB-Numerical Operations and Equipercentile Raw Scores for GATB Tests	46
31	Raw Scores for ASVAB-Numerical Operations and Equipercentile Raw Scores for DAT Tests	48
32	Raw Scores for ASVAB-Attention to Detail and Equipercentile Raw Scores for GATB Tests	50
33	Raw Scores for ASVAB-Attention to Detail and Equipercentile Raw Scores for DAT Tests	51
34	Raw Scores for ASVAB-Word Knowledge and Equipercentile Raw Scores for GATB Tests	52
35	Raw Scores for ASVAB-Word Knowledge and Equipercentile Raw Scores for DAT Tests	53
36	Raw Scores for ASVAB-Arithmetic Reasoning and Equipercentile Raw Scores for GATB Tests	54
37	Raw Scores for ASVAB-Arithmetic Reasoning and Equipercentile Raw Scores for DAT Tests	55
38	Raw Scores for ASVAB-Space Perception and Equipercentile Raw Scores for GATB Tests	56

Table		Page
39	Raw Scores for ASVAB-Space Perception and Equipercentile Raw Scores for DAT Tests	57
40	Raw Scores for ASVAB-Math Knowledge and Equipercentile Raw Scores for GATB Tests	58
41	Raw Scores for ASVAB-Math Knowledge and Equipercentile Raw Scores for DAT Tests	59
42	Raw Scores for ASVAB-Electronics Information and Equipercentile Raw Scores for GATB Tests	60
43	Raw Scores for ASVAB-Electronics Information and Equipercentile Raw Scores for DAT Tests	61
44	Raw Scores for ASVAB-Mechanical Comprehension and Equipercentile Raw Scores for GATB Tests	62
45	Raw Scores for ASVAB-Mechanical Comprehension and Equipercentile Raw Scores for DAT Tests	63
46	Raw Scores for ASVAB-General Science and Equipercentile Raw Scores for GATB Tests	64
47	Raw Scores for ASVAB-General Science and Equipercentile Raw Scores for DAT Tests	65
48	Raw Scores for ASVAB-General Biological Science and Equipercentile Raw Scores for GATB Tests	66
49	Raw Scores for ASVAB-General Biological Science and Equipercentile Raw Scores for DAT Tests	67
50	Raw Scores for ASVAB-Shop Information and Equipercentile Raw Scores for GATB Tests	68
51	Raw Scores for ASVAB-Shop Information and Equipercentile Raw Scores for DAT Tests	69
52	Raw Scores for ASVAB-Automotive Information and Equipercentile Raw Scores for GATB Tests	70
53	Raw Scores for ASVAB-Automotive Information and Equipercentile Raw Scores for DAT Tests	71
54	Raw Scores for GATB-Name Comparison and Equipercentile Raw Scores for ASVAB Tests	72
55	Raw Scores for GATB-Computation and Equipercentile Raw Scores for ASVAB Tests	75
56	Raw Scores for GATB-Dimensional Space and Equipercentile Raw Scores for ASVAB Tests	76
57	Raw Scores for GATB-Vocabulary and Equipercentile Raw Scores for ASVAB Tests	77
58	Raw Scores for GATB-Tool Matching and Equipercentile Raw Scores for ASVAB Tests	78

Table		Page
59	Raw Scores for GATB-Arithmetic Reasoning and Equipercentile Raw Scores for ASVAB Tests	79
60	Raw Scores for GATB-Form Matching and Equipercentile Raw Scores for ASVAB Tests	80
61	Raw Scores for GATB-Mark Making and Equipercentile Raw Scores for ASVAB Tests	82
62	Raw Scores for DAT-Verbal Reasoning and Equipercentile Raw Scores for ASVAB Tests	85
63	Raw Scores for DAT-Numerical Ability and Equipercentile Raw Scores for ASVAB Tests	87
64	Raw Scores for DAT-Abstract Reasoning and Equipercentile Raw Scores for ASVAB Tests	88
65	Raw Scores for DAT-Clerical Speed and Equipercentile Raw Scores for ASVAB Tests	90
66	Raw Scores for DAT-Mechanical Reasoning and Equipercentile Raw Scores for ASVAB Tests	93
67	Raw Scores for DAT-Space Relations and Equipercentile Raw Scores for ASVAB Tests	95
68	Raw Scores for DAT-Spelling and Equipercentile Raw Scores for ASVAB Tests	97
69	Raw Scores for DAT-Language Usage and Equipercentile Raw Scores for ASVAB Tests	100

ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB FORM 5): COMPARISON WITH GATB AND DAT TESTS

I. INTRODUCTION

The purpose of this study is to compare test performance on the Armed Services Vocational Aptitude Battery (ASVAB) with the Differential Aptitude Tests (DAT) and the General Aptitude Test Battery (GATB) in samples of high school students, providing information on interrelations among the test instruments. The information gained from this study is to be used to answer questions of high school counselors concerning the relationship of the ASVAB with the DAT and GATB. This information will be useful in achieving success of the high school ASVAB testing program.

II. PROCEDURES

Description of the Tests

The DAT battery was developed to provide a standardized procedure for measuring the abilities of students in grades 8 to 12 for purposes of educational and vocational guidance. The test was designed to meet the needs of guidance counselors and consulting psychologists for day-to-day use in schools, social agencies, and business organizations. The GATB was developed by the United States Employment Service for use by state employment service offices. The GATB has been included in a continuing program of research and has been validated against success in many different occupations. The ASVAB was developed by the Armed Services for administration to recruits and enlisted personnel. Form 5 of the ASVAB was used in this study.

The components of these three tests are presented in Table 1. For more details concerning these three tests, see references (United States Department of Labor, 1970; Bennett, Seashore, & Wesman, 1974; United States Department of Defense, 1976).

Description of the High Schools

The Armed Services Vocational Testing Group (ASVTG) selected possible candidate testing sites for this study. Arrangements were then made for testing at two of the sites through discussions with the school district personnel and personnel at the individual schools. The characteristics of the schools and their student populations are quite different.

High School A is located in a rural-suburban area, and can be considered a standard high school. Students attend this high school full-time and come from the surrounding area comprising the district. In the eleventh and twelfth grades, students are given the opportunity to receive career training at a county facility. This facility trains

Table 1. Components of the Tests

ASVAB	GATB	DAT
General Information (GI)	Name Comparison (NC)	Verbal Reasoning (VR)
Numerical Operations (NO)	Computation (CO)	Numerical Ability (NA)
Attention to Detail (AD)	Dimensional Space (DS)	Abstract Reasoning (AR)
Word Knowledge (WK)	Vocabulary (VO)	Clerical Speed (CS)
Arithmetic Reasoning (AR)		
	Tool Matching (TM)	Mechanical Reasoning (MR)
Space Perception (SP)	Arithmetic Reasoning (AR)	Space Relations (SR)
Math Knowledge (MK)	Form Matching (FM)	Spelling (SG)
Electronics Information (EI)	Mark Making (MM)	Language Usage (LU)
Mechanical Comprehension (MC)		
General Science (GS)		
General Biological Science (GB)		
Shop Information (SI)		
Automotive Information (AI)		

the students in saleable skills and the knowledge needs for future careers. Total enrollment at this school is approximately 650, and it seems to be typical of a small high school in the rural-suburban area.

High School B is located in the Southwest and is a career development school. This high school recruits its students from 18 high schools in the surrounding area. Some students attend as full-time students, while other students take academic courses at their home school and attend High School B as part-time students in the career development program. This school is organized into career clusters and each cluster encompasses several families of careers. Each student's needs and career interests help to determine the individual course of study. Students are thoroughly screened prior to entering this high school and, as such, the students may not be representative of the average high school population. Total enrollment is approximately 2,500.

Study Design

The study design was developed to provide comparisons on the ASVAB and the DAT and GATB. Two samples of students were used. One sample took the ASVAB and the DAT and the other sample took the ASVAB and the GATB. Each sample was divided equally at each school between sex and grade. The unit for sampling for School A was the homeroom and for School B the career cluster. Random selection was used to determine the multiple aptitude battery, DAT or GATB, that the student would take. The same procedures were used in counterbalancing the testing between the ASVAB and the other batteries.

The entire student body at School A was tested. At School B, only those students who received permission from their parents were administered the tests. Approximately 1,000 students out of a total of 2,500 received permission to take the tests. A total of 1,562 students were tested at both schools. Of these, 330 were eliminated due to the fact that they did not take all the components of the two tests that they were assigned to take. The total sample included in the analysis was 1,232. The breakdown of the sample by school, grade, and sex is presented in Table 2.

The procedure for testing was approximately the same at both schools. All students in both samples were tested at each school with the ASVAB. Approximately one-half of the total sample took the DAT and the other half took the GATB. Because the total time of administration for the DAT was four hours, the test was split into two halves in accordance with instructions in the DAT manual. In order to counterbalance the possible effects of the ASVAB testing, half of the sample taking the DAT took the first half of the DAT prior to taking the ASVAB and the second half of the DAT after taking the ASVAB. The other half of the DAT sample were administered the parts of the DAT in reverse order. Half of the GATB sample were administered the GATB before the ASVAB and the other half were administered the GATB after the ASVAB. The testing procedures for each of the samples is presented in Table 3.

Table 2. Sample Size Breakdown

	School A			School B			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Grade 10	112	95	207	178	120	298	290	215	505
Grade 11	99	76	175	141	125	266	240	201	441
Grade 12	76	94	170	50	66	116	126	160	286
Total	287	265	552	369	311	680	656	576	1232

Table 3. Study Design

DAT Sample

	Day 1	Day 2	Day 3
Group I	DAT - Part I	ASVAB	DAT - Part II
Group II	DAT - Part II	ASVAB	DAT - Part I

GATB Sample

	Day 1	Day 2	Day 3
Group I	GATB	ASVAB	-----
Group II	-----	ASVAB	GATB

Testing Procedures

Skilled test administrators were used to administer all tests. The GATB administrators, in addition, were certified by the Department of Labor. Proctors were provided by the schools and by the Armed Forces examining and entrance stations (AFEES). Because the facilities available at each school were unique, the physical setup for the testing was adapted to each school plant. At School A, both the GATB and the DAT were administered in small classroom areas. The ASVAB was administered over the public address system to the entire school at the same time, with the students in their homerooms. At School B, the GATB was administered in small classrooms, while the ASVAB and the DAT were administered in the school auditorium to large groups.

Analysis Procedures

All answer sheets were manually scanned for duplicate answers, illegible marks, and other errors. All answer sheets were then machine-scored and the scores put on magnetic tapes. These tapes were edited by validity checking programs and errors were corrected to assure an accurate data base. This data base was then used for the analyses. For each sample, univariate, bivariate and multivariate analyses were accomplished.

III. RESULTS AND DISCUSSION

Univariate Statistics

A number of statistics for the univariate distributions were calculated, including the mean, median, standard deviation, skewness, kurtosis, and range. The means and standard deviations for each sample by sex and grade are presented in Tables 4 through 6. For the ASVAB, the males had higher means for all components except for two – Numerical Operations and Attention to Detail. This held true for all grades. For the GATB, the males had higher means than the females for only three of the components; these were Dimensional Space, Vocabulary, and Arithmetic Reasoning. This again held true for all grades. For the DAT, the males had lower means than the females for three tests – Clerical Speed and Accuracy, Spelling, and Language Usage – for the tenth and twelfth grades. In addition, for the eleventh grade, the males were lower on Numerical Ability and Abstract Reasoning.

In addition to the means and standard deviations, other univariate statistics are presented in Tables 7 through 12. These statistics include the difficulty level, median, maximum, minimum, kurtosis, and skewness. For every test in the ASVAB, the limit of the test was reached. The males did not reach the limit of the test in the two speed

Table 4. Means and Standard Deviations for Tenth Grade

Test		Male		Female	
		Mean	S.D.	Mean	S.D.
ASVAB	General Information	9.3	2.4	7.5	2.1
	Numerical Operations	32.8	9.6	37.2	8.5
	Attention to Detail	13.6	4.2	16.3	4.6
	Word Knowledge	18.4	6.2	15.8	5.9
	Arithmetic Reasoning	12.1	4.2	10.4	3.7
	Space Perception	11.0	4.3	9.7	3.9
	Math Knowledge	13.2	4.9	12.5	4.3
	Electronics Information	18.5	5.5	13.7	3.7
	Mechanical Comprehension	11.0	4.2	7.4	2.9
	General Science	11.6	4.0	9.3	3.1
	General Biological Science	6.1	2.1	5.2	1.9
	Shop Information	12.9	3.7	8.4	2.7
	Automotive Information	9.6	4.2	5.9	2.1
DAT	Verbal Reasoning	24.3	10.8	23.3	12.4
	Numerical Ability	22.1	8.9	21.9	7.9
	Abstract Reasoning	33.9	9.2	33.5	9.7
	Clerical Speed	41.3	9.4	46.7	14.2
	Mechanical Reasoning	49.0	9.6	37.9	9.6
	Space Relations	32.6	12.1	28.1	12.3
	Spelling	60.1	19.5	71.7	17.6
	Language Usage	28.3	10.5	31.6	10.5
GATB	Name Comparison	44.0	11.7	49.8	10.7
	Computation	21.2	4.5	22.5	3.7
	Dimensional Space	18.9	5.8	17.2	5.2
	Vocabulary	17.8	6.1	16.6	5.7
	Tool Matching	30.2	5.5	32.4	5.6
	Arithmetic Reasoning	10.2	3.2	9.5	2.5
	Form Matching	26.7	6.7	27.2	5.2
	Mark Making	67.1	8.4	69.2	13.2

Table 5. Means and Standard Deviations for Eleventh Grade

Test		Male		Female	
		Mean	S.D.	Mean	S.D.
ASVAB	General Information	9.7	2.4	7.4	2.0
	Numerical Operations	34.4	10.5	38.8	9.8
	Attention to Detail	14.0	4.2	15.4	4.7
	Word Knowledge	19.5	6.0	17.1	5.8
	Arithmetic Reasoning	12.7	4.3	10.6	4.0
	Space Perception	11.7	4.7	9.4	4.2
	Math Knowledge	13.8	4.9	13.4	4.5
	Electronics Information	19.2	5.6	13.6	3.5
	Mechanical Comprehension	11.9	4.2	7.1	3.0
	General Science	12.1	4.1	9.1	3.3
	General Biological Science	6.4	2.1	5.4	2.0
	Shop Information	13.5	3.9	9.0	2.8
	Automotive Information	10.9	4.6	5.6	2.4
DAT	Verbal Reasoning	26.8	12.2	26.5	12.6
	Numerical Ability	22.2	9.8	22.8	9.2
	Abstract Reasoning	33.8	9.9	36.2	8.9
	Clerical Speed	45.1	11.9	51.9	11.7
	Mechanical Reasoning	48.4	11.3	37.2	9.5
	Space Relations	34.7	13.2	27.0	11.4
	Spelling	64.4	19.9	81.0	14.7
	Language Usage	29.8	11.0	32.1	10.5
GATB	Name Comparison	44.2	11.2	49.9	11.5
	Computation	21.2	4.5	22.3	5.1
	Dimensional Space	19.3	5.9	15.8	4.6
	Vocabulary	18.5	5.8	17.8	5.4
	Tool Matching	29.8	5.3	32.6	5.8
	Arithmetic Reasoning	10.6	2.9	9.7	3.2
	Form Matching	26.9	6.1	26.9	5.9
	Mark Making	68.0	8.6	72.4	8.3

Table 6. Means and Standard Deviations for Twelfth Grade

Test		Male		Female	
		Mean	S.D.	Mean	S.D.
ASVAB	General Information	10.2	2.3	8.2	2.1
	Numerical Operations	35.2	10.0	37.7	9.9
	Attention to Detail	14.3	4.4	15.9	3.9
	Word Knowledge	21.3	6.4	19.0	6.9
	Arithmetic Reasoning	13.7	4.6	11.6	4.5
	Space Perception	12.7	5.0	11.1	4.3
	Math Knowledge	14.7	4.9	13.0	5.0
	Electronics Information	20.6	5.2	14.2	4.1
	Mechanical Comprehension	12.5	4.4	7.5	3.3
	General Science	13.1	3.9	10.2	3.7
	General Biological Science	7.1	2.1	5.8	2.0
	Shop Information	14.1	3.8	9.4	2.9
	Automotive Information	11.1	5.0	6.2	2.4
DAT	Verbal Reasoning	28.5	11.8	26.2	14.0
	Numerical Ability	23.4	10.7	22.1	10.2
	Abstract Reasoning	35.0	11.4	35.2	9.0
	Clerical Speed	46.2	11.0	52.0	13.9
	Mechanical Reasoning	48.3	9.6	38.5	11.1
	Space Relations	35.3	13.1	29.8	12.0
	Spelling	66.5	20.1	77.3	14.9
	Language Usage	32.1	10.7	34.6	10.9
GATB	Name Comparison	46.4	11.7	53.0	12.0
	Computation	22.2	5.8	22.4	4.8
	Dimensional Space	20.8	7.5	17.0	5.5
	Vocabulary	22.0	8.1	19.5	6.5
	Tool Matching	31.6	5.2	31.6	5.7
	Arithmetic Reasoning	11.4	3.4	10.1	3.1
	Form Matching	27.6	6.4	28.3	5.9
	Mark Making	67.6	9.2	73.9	8.5

Table 7. Univariate Statistics - Tenth Grade Males

	Number of Items	Difficulty	Mean	Median	Standard Deviation	Kurtosis	Skewness	Minimum	Maximum
ASVAB									
General Information	15	.62	9.31	9.52	2.37	-.36	-.35	3	15
Numerical Operations	50	---	32.78	31.79	9.59	-.65	.02	13	42
Attention to Detail	30	---	13.63	13.43	4.16	.97	.59	3	28
Word Knowledge	30	.61	18.40	19.06	6.21	-.90	-.21	5	25
Arithmetic Reasoning	20	.60	12.06	11.54	4.15	-.80	.07	3	20
Space Perception	20	.55	11.03	10.54	4.27	-.65	.30	3	20
Math Knowledge	20	.66	13.16	13.45	4.94	-.79	-.32	1	20
Electronics Information	30	.62	18.47	18.33	5.52	-.06	-.39	3	29
Mechanical Comprehension	20	.55	11.01	11.01	4.12	-.70	.05	1	20
General Science	20	.58	11.64	11.59	3.99	-.83	-.04	2	20
General Biological Science	10	.61	6.07	6.19	2.10	-.72	-.18	1	10
Shop Information	20	.65	12.92	13.40	3.68	-.33	-.50	3	20
Automotive Information	20	.48	9.63	9.09	4.15	-.50	.41	1	20
GATB									
Name Comparison	150	---	43.98	44.75	11.71	4.84	.38	23	103
Computation	50	.42	21.26	21.28	4.50	.27	-.05	10	33
Dimensional Space	40	.47	18.93	19.11	5.85	-.28	.04	7	38
Vocabulary	60	.30	17.84	17.44	6.13	-.31	.19	5	34
Tool Matching	49	---	30.24	30.19	5.49	-.54	-.04	18	44
Arithmetic Reasoning	25	.41	10.25	10.22	3.15	-.07	-.16	2	18
Form Matching	60	.45	26.78	25.79	6.72	1.75	.57	7	55
Mark Making	---	---	67.14	66.42	8.40	.40	.28	47	96
DAT									
Verbal Reasoning	50	.48	24.31	22.56	10.80	-.88	.31	3	47
Numerical Ability	40	.55	22.08	22.00	8.93	-.92	-.10	4	40
Abstract Reasoning	50	.67	33.88	35.56	9.21	.69	-.99	5	50
Clerical Speed	100	---	41.32	40.44	9.40	.97	.08	8	70
Mechanical Reasoning	70	.70	49.03	50.79	9.65	-.04	-.61	21	67
Space Relations	60	.54	32.65	30.27	12.13	-.91	.26	10	58
Spelling	100	.60	60.12	59.67	19.60	-.91	-.04	13	96
Language Usage	60	.47	28.30	28.29	10.49	-.62	.19	5	55

Table 8. Univariate Statistics - Tenth Grade Females

	Number of Items	Difficulty	Mean	Median	Standard Deviation	Kurtosis	Skewness	Minimum	Maximum
ASVAB									
General Information	15	.50	7.49	7.54	2.06	-.48	.01	3	12
Numerical Operations	50	---	37.24	37.27	8.54	-.61	-.21	13	50
Attention to Detail	30	---	16.27	15.59	4.55	.21	.54	5	29
Word Knowledge	30	.53	15.84	15.38	5.89	-.71	.27	4	30
Arithmetic Reasoning	20	.52	10.35	9.83	3.68	-.57	.47	4	20
Space Perception	20	.49	9.73	9.74	3.85	-.29	.45	2	19
Math Knowledge	20	.62	12.49	12.47	4.29	-.90	-.11	3	20
Electronics Information	30	.69	13.72	13.52	3.70	-.37	.13	5	24
Mechanical Comprehension	20	.37	7.35	7.03	2.90	.41	.55	1	17
General Science	20	.46	9.28	8.86	3.09	.06	.34	1	19
General Biological Science	10	.52	5.18	5.17	1.88	-.32	.08	1	10
Shop Information	20	.42	8.42	8.62	2.72	-.02	.11	2	16
Automotive Information	20	.29	5.86	5.90	2.11	.02	-.07	1	12
GATB									
Name Comparison	150	---	49.77	50.00	10.71	2.07	-.50	3	79
Computation	50	.45	22.51	22.92	3.76	-.16	-.15	13	31
Dimensional Space	40	.43	17.23	17.59	5.21	-.18	.10	6	33
Vocabulary	60	.28	16.55	15.86	5.68	.53	.57	2	32
Tool Matching	49	---	32.43	32.50	5.64	.35	-.31	15	46
Arithmetic Reasoning	25	.38	9.48	9.50	2.54	-.18	-.05	3	17
Form Matching	60	.45	27.18	26.08	5.18	.01	.66	17	41
Mark Making	---	---	69.15	69.90	13.25	12.51	-1.52	51	127
DAT									
Verbal Reasoning	50	.47	23.30	23.25	12.37	-1.10	.27	3	48
Numerical Ability	40	.55	21.94	21.60	7.93	-.98	.08	5	39
Abstract Reasoning	50	.67	33.48	34.75	9.70	.15	-.76	7	49
Clerical Speed	100	---	46.68	46.68	14.19	4.54	.34	1	100
Mechanical Reasoning	70	.54	37.90	37.40	9.57	-.88	.21	22	59
Space Relations	60	.47	28.09	25.40	12.26	-.85	.46	9	57
Spelling	100	.72	71.72	74.87	17.62	-.74	-.60	34	97
Language Usage	60	.53	31.60	32.25	10.54	-.43	.13	9	56

Table 9. Univariate Statistics - Eleventh Grade Males

	Number of Items	Difficulty	Mean	Median	Standard Deviation	Kurtosis	Skewness	Minimum	Maximum
ASVAB									
General Information	15	.64	9.66	9.71	2.36	-.15	-.31	3	14
Numerical Operations	50	---	34.38	34.17	10.52	-.76	-.23	7	50
Attention to Detail	30	---	13.98	13.68	4.20	1.05	.73	5	30
Word Knowledge	30	.65	19.53	19.94	5.99	-.68	-.27	4	30
Arithmetic Reasoning	20	.64	12.72	12.81	4.30	-.92	-.13	2	20
Space Perception	20	.58	11.66	11.69	4.71	-1.13	-.03	2	20
Math Knowledge	20	.69	13.77	14.42	4.86	-.82	-.46	2	20
Electronics Information	30	.64	19.17	19.42	5.64	-.55	-.25	4	30
Mechanical Comprehension	20	.59	11.88	11.63	4.22	-.91	.07	2	20
General Science	20	.61	12.13	12.18	4.07	-.93	-.13	4	20
General Biological Science	10	.64	6.40	6.50	2.10	-.52	-.37	1	10
Shop Information	20	.67	13.45	13.67	3.90	-.28	-.43	1	20
Automotive Information	20	.54	10.86	10.59	4.56	-.95	.11	2	20
GATB									
Name Comparison	150	---	44.22	43.17	11.22	.67	.34	7	79
Computation	50	.42	21.25	21.64	4.53	.56	-.45	7	33
Dimensional Space	40	.48	19.32	18.90	5.91	-.54	.16	7	34
Vocabulary	60	.31	18.54	19.00	5.76	-.45	-.01	5	33
Tool Matching	49	---	29.82	30.80	5.28	-.53	-.34	17	40
Arithmetic Reasoning	25	.40	10.64	10.73	2.86	.14	.25	4	19
Form Matching	60	.45	26.93	26.28	6.06	-.19	.08	11	42
Mark Making	---	---	67.95	68.50	8.55	-.09	-.29	42	87
DAT									
Verbal Reasoning	50	.54	26.80	24.75	12.16	-1.14	.19	6	49
Numerical Ability	40	.56	22.21	21.50	9.85	-.99	.04	3	40
Abstract Reasoning	50	.68	33.84	35.79	9.87	.10	-.87	7	49
Clerical Speed	100	---	45.06	43.50	11.86	1.28	.76	19	89
Mechanical Reasoning	70	.69	48.35	50.17	11.30	-.25	-.61	20	69
Space Relations	60	.58	34.67	34.00	13.21	-1.14	.08	11	60
Spelling	100	.64	64.37	63.50	19.88	-.99	-.15	19	98
Language Usage	60	.50	29.76	27.50	10.97	-.87	.36	11	56

Table 10. Univariate Statistics - Eleventh Grade Females

	Number of Items	Difficulty	Mean	Median	Standard Deviation	Kurtosis	Skewness	Minimum	Maximum
ASVAB									
General Information	15	.51	7.62	7.33	2.05	-.33	.27	3	13
Numerical Operations	50	---	36.78	37.75	9.83	-.24	-.53	5	50
Attention to Detail	30	---	15.90	15.36	4.69	.00	.54	6	30
Word Knowledge	30	.58	17.52	17.05	5.75	-.70	.19	4	30
Arithmetic Reasoning	20	.57	11.34	10.56	3.97	-.75	.30	3	20
Space Perception	20	.52	10.36	9.71	4.17	-.50	.49	3	20
Math Knowledge	20	.65	12.95	13.44	4.51	-.94	-.20	2	20
Electronics Information	30	.68	13.59	13.57	3.49	-.04	-.01	4	23
Mechanical Comprehension	20	.38	7.51	7.12	3.05	-.24	.51	2	16
General Science	20	.46	9.26	9.10	3.32	-.09	.20	1	19
General Biological Science	10	.54	5.36	5.41	2.02	-.40	-.08	1	10
Shop Information	20	.45	9.00	9.00	2.77	.23	-.11	2	17
Automotive Information	20	.30	5.99	5.61	2.43	.41	.62	2	13
GATB									
Name Comparison	150	---	51.63	49.87	11.53	-.41	.14	21	78
Computation	50	.45	22.42	22.31	5.14	-.34	.00	9	34
Dimensional Space	40	.41	16.25	15.80	4.61	-.15	.37	7	29
Vocabulary	60	.30	17.73	17.81	5.44	-.09	.12	3	32
Tool Matching	49	---	31.89	32.56	5.79	-.71	-.11	20	46
Arithmetic Reasoning	25	.48	9.69	9.67	3.16	.05	.04	1	17
Form Matching	60	.45	27.03	26.89	5.90	-.23	.31	16	41
Mark Making	---	---	72.43	72.37	8.29	-.92	.40	54	100
DAT									
Verbal Reasoning	50	.51	25.67	26.50	12.64	-1.2[illegible]	.14	4	48
Numerical Ability	40	.57	22.61	22.83	9.17	-1.13	-.02	7	40
Abstract Reasoning	50	.69	34.65	36.17	8.89	.35	-.91	9	49
Clerical Speed	100	---	51.56	51.90	11.6[illegible]	.73	.50	25	88
Mechanical Reasoning	70	.55	38.31	37.17	9.52	-.36	.21	18	62
Space Relations	60	.50	30.00	27.00	11.35	-.59	.47	10	59
Spelling	100	.77	76.74	81.00	14.73	-.18	-.87	42	97
Language Usage	60	.56	33.45	32.10	10.54	-.86	.14	12	56

Table 11. Univariate Statistics - Twelfth Grade Males

	Number of Items	Difficulty	Mean	Median	Standard Deviation	Kurtosis	Skewness	Minimum	Maximum
ASVAB									
General Information	15	.68	10.17	10.40	2.32	-.36	-.27	4	15
Numerical Operations	50	---	35.15	35.33	10.04	-.61	-.30	6	50
Attention to Detail	30	---	14.29	14.35	4.37	1.76	-.07	1	28
Word Knowledge	30	.71	21.26	22.00	6.38	.04	-.65	4	30
Arithmetic Reasoning	20	.69	13.71	14.62	4.58	-.42	-.56	3	20
Space Perception	20	.63	12.67	13.06	4.95	-1.13	-.17	3	20
Math Knowledge	20	.73	14.65	15.86	4.87	-.37	-.80	2	20
Electronics Information	30	.69	20.59	20.61	5.22	-.30	-.28	4	30
Mechanical Comprehension	20	.63	12.52	12.75	4.41	-.89	-.23	3	20
General Science	20	.65	13.06	13.11	3.87	-.38	-.32	2	20
General Biological Science	10	.71	7.09	7.41	2.08	.24	-.79	1	10
Shop Information	20	.71	14.14	14.50	3.84	-.08	-.53	1	20
Automotive Information	20	.55	11.06	10.71	5.01	-.87	.04	1	20
GATB									
Name Comparison	150	---	46.43	46.00	11.70	.13	.26	23	79
Computation	50	.44	22.24	22.25	5.79	.21	.01	6	37
Dimensional Space	40	.52	20.78	21.50	7.51	-.75	.10	6	36
Vocabulary	60	.36	21.97	21.83	8.06	.62	.32	4	47
Tool Matching	49	---	31.62	31.50	5.20	-.05	-.24	18	43
Arithmetic Reasoning	25	.46	11.43	10.93	3.42	.57	.40	3	22
Form Matching	60	.46	27.65	27.25	6.45	.05	-.15	12	42
Mark Making	---	---	67.64	69.00	9.15	.64	-.34	43	90
DAT									
Verbal Reasoning	50	.57	28.46	27.17	11.81	-1.23	.06	7	49
Numerical Ability	40	.59	23.40	23.50	10.73	-1.36	-.13	5	40
Abstract Reasoning	50	.70	34.97	38.50	11.43	.46	-1.19	6	49
Clerical Speed	100	---	46.21	44.50	10.95	.98	.46	20	85
Mechanical Reasoning	70	.69	48.31	48.33	9.57	-.61	-.22	27	68
Space Relations	60	.59	35.28	35.83	13.10	-1.01	.13	8	59
Spelling	100	.67	66.54	65.50	20.13	-1.04	-.31	21	97
Language Usage	60	.54	32.10	29.33	10.66	-.63	.31	12	58

Table 12. Univariate Statistics - Twelfth Grade Females

	Number of Items	Difficulty	Mean	Median	Standard Deviation	Kurtosis	Skewness	Minimum	Maximum
ASVAB									
General Information	15	.55	8.22	8.24	2.13	-.64	.11	3	13
Numerical Operations	50	---	37.72	38.10	9.94	-1.01	-.34	14	50
Attention to Detail	30	---	15.93	15.92	3.90	.42	.42	7	28
Word Knowledge	30	.63	18.98	18.93	6.90	-1.27	-.02	5	30
Arithmetic Reasoning	20	.58	11.59	11.04	4.53	-1.10	.24	3	20
Space Perception	20	.55	11.06	10.50	4.28	-.89	.33	4	20
Math Knowledge	20	.65	12.96	13.25	5.02	-1.25	-.14	3	20
Electronics Information	30	.47	14.23	14.06	4.12	.21	.22	3	27
Mechanical Comprehension	20	.35	7.46	7.10	3.30	.00	.44	1	17
General Science	20	.51	10.15	9.87	3.72	-.20	.30	3	20
General Biological Science	10	.58	5.76	5.67	1.99	-.59	-.01	2	10
Shop Information	20	.47	9.41	9.43	2.87	1.29	-.46	3	17
Automotive Information	20	.31	6.23	6.17	2.44	.52	.15	1	15
GATB									
Name Comparison	150	---	53.04	52.25	11.98	.17	.18	24	85
Computation	50	.45	22.44	22.75	4.80	-.37	.14	11	33
Dimensional Space	40	.43	17.04	17.14	5.48	-.62	.10	6	29
Vocabulary	60	.33	19.51	19.80	6.54	-.93	.17	7	34
Tool Matching	49	---	31.58	31.62	5.68	-.39	.20	19	47
Arithmetic Reasoning	25	.40	10.11	10.00	3.13	-.72	.16	4	17
Form Matching	60	.47	28.27	27.75	5.88	-.15	.18	13	41
Mark Making	---	---	73.86	74.87	8.48	1.65	-.96	41	90
DAT									
Verbal Reasoning	50	.52	26.18	23.17	13.97	-1.25	.33	4	50
Numerical Ability	40	.55	22.12	21.00	10.21	-1.30	.03	6	39
Abstract Reasoning	50	.70	35.16	36.50	8.97	.28	-.85	10	48
Clerical Speed	100	---	52.02	52.64	13.19	3.38	-.21	27	93
Mechanical Reasoning	70	.55	38.49	37.86	11.10	-.76	.10	13	60
Space Relations	60	.50	29.79	28.00	12.00	-.83	.48	12	56
Spelling	100	.77	77.34	81.00	14.91	.89	-1.07	26	97
Language Usage	60	.58	34.63	33.75	10.85	-.98	.23	13	57

tests, Numerical Operations and Attention to Detail. The females did not reach the limit in Electronics Information, Mechanical Comprehension, Shop Information, and Automotive Information. This was true of all three grades.

The difficulty index was computed by dividing the mean of the test by the number of items in the test. For the males, all difficulty indices for the tests in the ASVAB were above .50 except for Automotive Information. For this test, the tenth grade males had a difficulty index less than .50. For the females, the difficulty indices were less than .50 for Electronics Information, Mechanical Comprehension, Automotive Information, and Shop Information. Difficulty indices were not computed for the speed tests.

For the males, approximately one-half of the tenth grade distributions for the ASVAB test showed negative skewness. The number of tests having negatively skewed distributions increased with grade. For the twelfth grade males, all ASVAB test distributions had a negative skewness. For the females in each of the grades, only five of the ASVAB test distributions showed negative skewness. The results were expected since the tests became easier for the sample as the grade increased and were easier for the males than for the females. Almost all of the distributions of the ASVAB tests were platykurtic. This was to be expected for tests of this type.

Correlations

For each of the samples, Pearson product-moment correlations were computed between each of the components of the ASVAB and each of the components of the DAT and the GATB. These correlations were computed for each grade by sex. The results are presented in Tables 13 through 18. In general, the size of the intercorrelations increases with increasing grade and are higher for the males than for the females. Six of the tests in the ASVAB are typical of tests in an aptitude battery; these tests are Numerical Operations, Attention to Detail, Work Knowledge, Arithmetic Reasoning, Space Perception, Mathematical Knowledge, and Mechanical Comprehension. They have a counterpart in either or both the DAT and GATB. For these tests, it was expected there would be at least one high correlation with one other test in the multiple aptitude batteries. For the other tests, only moderate correlations were expected. The highest correlations were between the Word Knowledge of the ASVAB and the Vocabulary of the GATB and Verbal Reasoning of the DAT. Correlations ranged from .69 to .83. Other high correlations were between the Arithmetic Reasoning test of the ASVAB and Arithmetic Reasoning of the GATB and Numerical Ability of the DAT. These correlations ranged from .67 to .86. Correlations between Space Perception of the ASVAB and the Dimensional Space of the GATB and Space Relations of the DAT ranged from .55 to .78. Mathematical Knowledge of the ASVAB correlated with Arithmetic Reasoning of the GATB and Numerical Ability of the DAT in the range of .65 to .86. Mechanical Comprehension of the ASVAB and Mechanical Reasoning of the DAT ranged from .62 to .77. Correlations between Numerical Operations of the ASVAB and Computations of the DAT ranged from .40 to .76. Attention to Detail of the

Table 13. Tenth Grade Intercorrelation - ASVAB and GATB

		ASVAB													GATB							
Grade 10 - Males		GI	NO	AD	WK	AR	SP	MK	EI	MC	GS	GB	SI	AI	NC	CO	DS	VO	TM	AR	FM	MM
ASVAB	General Information (GI)	1.00	.16	.06	.40	.53	.13	.41	.37	.43	.41	.34	.29	.32	.12	.24	.24	.38	.06	.33	.06	.01
	Numerical Operations (NO)	.16	1.00	.44	.34	.49	.16	.57	.22	.35	.22	.20	.15	.09	.61	.70	.16	.49	.45	.63	.41	.39
	Attention to Detail (AD)	.06	.44	1.00	.21	.20	.22	.25	.16	.28	.17	.08	.12	.09	.41	.30	.23	.28	.44	.28	.38	.42
	Word Knowledge (WK)	.40	.34	.21	1.00	.61	.36	.59	.57	.58	.65	.56	.35	.30	.30	.34	.41	.80	.31	.52	.31	.15
	Arithmetic Reasoning (AR)	.53	.49	.20	.61	1.00	.29	.72	.46	.65	.55	.46	.36	.22	.26	.51	.28	.63	.23	.67	.26	.10
	Space Perception (SP)	.13	.16	.22	.36	.29	1.00	.31	.45	.49	.29	.19	.26	.19	.20	.12	.62	.33	.33	.25	.34	.08
	Math Knowledge	.41	.57	.25	.59	.72	.31	1.00	.41	.63	.52	.43	.32	.17	.30	.55	.22	.64	.30	.64	.33	.23
	Electronics Information (EI)	.37	.22	.16	.37	.46	.45	.41	1.00	.62	.55	.44	.45	.46	.13	.14	.55	.52	.27	.34	.14	.03
	Mechanical Comprehension (MC)	.43	.35	.28	.58	.65	.49	.63	.62	1.00	.62	.53	.43	.39	.26	.32	.55	.61	.31	.51	.28	.18
	General Science (GS)	.41	.22	.17	.65	.55	.29	.52	.55	.62	1.00	.89	.38	.32	.13	.21	.38	.61	.29	.38	.22	.16
	General Biological Science (GB)	.34	.20	.08	.56	.46	.19	.43	.44	.53	.89	1.00	.38	.24	.15	.19	.27	.52	.25	.33	.17	.16
	Shop Information (SI)	.29	.15	.12	.35	.36	.26	.32	.45	.43	.38	.38	1.00	.49	.03	.11	.29	.39	.04	.29	.23	-.02
	Automotive Information (AI)	.32	.09	.09	.30	.22	.19	.17	.46	.39	.32	.24	.49	1.00	.04	.07	.42	.29	.20	.29	.19	.04
GATB	Name Comparison (NC)	.12	.61	.41	.30	.26	.20	.30	.13	.26	.13	.15	.03	.04	1.00	.51	.31	.45	.60	.45	.47	.50
	Computation (CO)	.24	.70	.30	.34	.51	.12	.55	.14	.32	.21	.19	.11	.07	.51	1.00	.14	.45	.36	.73	.36	.30
	Dimensional Space (SI)	.24	.16	.23	.41	.28	.62	.22	.55	.55	.38	.27	.29	.42	.31	.14	1.00	.46	.45	.33	.40	.12
	Vocabulary (VO)	.38	.49	.28	.80	.63	.33	.64	.52	.61	.61	.52	.39	.29	.45	.45	.46	1.00	.37	.61	.39	.22
	Tool Matching (TM)	.06	.45	.44	.31	.23	.33	.30	.27	.31	.29	.25	.04	.20	.60	.36	.45	.37	1.00	.39	.48	.44
	Arithmetic Reasoning (AR)	.33	.63	.28	.52	.67	.25	.64	.34	.51	.38	.33	.29	.29	.45	.73	.33	.61	.39	1.00	.38	.25
	Form Matching (FM)	.06	.41	.38	.31	.26	.34	.33	.14	.28	.22	.18	.23	.19	.47	.36	.40	.39	.48	.38	1.00	.34
	Mark Making (MM)	.04	.39	.42	.15	.10	.08	.23	.03	.18	.16	.16	-.02	.04	.50	.30	.12	.22	.44	.25	.34	1.00
Grade 10 - Females																						
ASVAB	General Information (GI)	1.00	.09	-.08	.37	.22	.10	.34	.31	.14	.37	.34	.20	.16	.10	.26	.09	.29	.05	.28	.15	-.05
	Numerical Operations (NO)	.09	1.00	.44	.23	.30	-.12	.26	.09	.20	.17	.10	.04	.07	.39	.40	.11	.32	.42	.42	.22	.11
	Attention to Detail (AD)	-.08	.44	1.00	-.10	.07	.05	.00	-.01	.02	-.13	-.06	-.05	.01	.24	.13	-.03	-.05	.38	.15	.09	.13
	Word Knowledge (WK)	.37	.23	-.10	1.00	.53	.33	.51	.55	.46	.66	.54	.39	.34	.24	.26	.38	.72	.15	.44	.17	.03
	Arithmetic Reasoning (AR)	.22	.30	.07	.53	1.00	.44	.66	.48	.47	.52	.39	.30	.25	.21	.41	.45	.51	.27	.62	.21	-.07
	Space Perception (SP)	.10	-.12	.05	.33	.44	1.00	.42	.41	.36	.30	.26	.25	.24	.02	.08	.57	.21	.17	.29	.19	-.11
	Math Knowledge (MK)	.34	.26	.00	.51	.66	.42	1.00	.47	.48	.54	.48	.43	.32	.28	.54	.46	.52	.24	.63	.32	-.07
	Electronics Information (EI)	.31	.09	-.01	.55	.48	.41	.47	1.00	.53	.59	.47	.46	.40	.11	.14	.39	.47	.20	.39	.28	-.05
	Mechanical Comprehension (MC)	.14	.20	.02	.46	.47	.36	.48	.53	1.00	.44	.34	.36	.30	.02	.12	.40	.43	.11	.34	.15	-.07
	General Science (GS)	.37	.17	-.13	.66	.52	.30	.54	.59	.44	1.00	.81	.42	.27	.25	.29	.39	.56	.15	.43	.19	-.08
	General Biological Science (GB)	.34	.10	-.06	.54	.39	.26	.48	.47	.34	.81	1.00	.37	.17	.24	.27	.29	.49	.17	.41	.20	-.06
	Shop Information (SI)	.20	.04	-.05	.39	.30	.25	.43	.46	.36	.42	.37	1.00	.24	.25	.27	.26	.43	.32	.32	.20	.09
	Automotive Information (AI)	.16	.07	.01	.34	.25	.24	.32	.40	.30	.27	.17	.24	1.00	.11	.18	.31	.30	.17	.21	.12	-.07
GATB	Name Comparison (NC)	.10	.39	.24	.24	.21	.02	.28	.11	.02	.25	.24	.25	.11	1.00	.46	.23	.39	.62	.33	.42	.11
	Computation (CO)	.26	.40	.13	.26	.41	.08	.54	.14	.12	.29	.27	.27	.18	.46	1.00	.20	.43	.32	.57	.26	-.05
	Dimensional Space (DS)	.09	.11	-.03	.38	.45	.57	.46	.39	.40	.39	.29	.26	.31	.23	.20	1.00	.36	.25	.34	.38	-.12
	Vocabulary (VO)	.29	.32	-.05	.72	.51	.21	.52	.47	.43	.56	.49	.43	.30	.39	.43	.36	1.00	.31	.56	.22	.14
	Tool Matching (TM)	.05	.43	.38	.15	.27	.17	.24	.20	.11	.15	.17	.32	.12	.62	.32	.25	.31	1.00	.37	.37	.12
	Arithmetic Reasoning (AR)	.28	.42	.15	.44	.62	.29	.63	.39	.34	.43	.41	.32	.21	.33	.57	.34	.56	.37	1.00	.19	-.09
	Form Matching (FM)	.15	.22	.09	.17	.21	.19	.32	.28	.15	.19	.20	.20	.12	.42	.26	.38	.22	.37	.19	1.00	.03
	Mark Making (MM)	-.05	.11	.13	.03	-.07	-.11	-.07	-.05	-.07	-.08	-.05	.09	-.07	.11	-.05	-.12	.14	.12	-.09	.03	1.00

Table 14. Eleventh Grade Intercorrelation - ASVAB and GATB

		ASVAB													GATB							
Grade 11 - Males		GI	NO	AD	WK	AR	SP	MK	EI	MC	GS	GB	SI	AI	NC	CO	DS	VO	TM	AR	FM	MM
ASVAB	General Information (GI)	1.00	.15	.06	.52	.37	.23	.39	.40	.41	.40	.37	.36	.36	.20	.23	.30	.47	.13	.38	.22	-.15
	Numerical Operations (NO)	.15	1.00	.48	.26	.45	.12	.52	.07	.08	.14	.15	.13	.03	.62	.70	.22	.38	.49	.55	.42	.52
	Attention to Detail (AD)	.06	.48	1.00	.14	.24	.25	.29	.02	.10	.10	.12	.04	.02	.44	.36	.21	.24	.49	.31	.35	.46
	Word Knowledge (WK)	.52	.26	.14	1.00	.55	.27	.60	.47	.40	.62	.54	.29	.32	.22	.34	.29	.73	.11	.55	.18	-.01
	Arithmetic Reasoning (AR)	.37	.45	.24	.55	1.00	.39	.73	.47	.50	.53	.37	.29	.27	.42	.59	.43	.59	.33	.77	.38	.10
	Space Perception (SP)	.23	.12	.25	.27	.39	1.00	.50	.52	.59	.40	.24	.42	.47	.27	.21	.71	.29	.25	.34	.48	.12
	Math Knowledge (MK)	.39	.52	.29	.60	.73	.50	1.00	.44	.51	.56	.49	.28	.25	.49	.67	.49	.62	.39	.72	.43	.23
	Electronics Information (EI)	.40	.07	.02	.47	.47	.52	.44	1.00	.71	.58	.42	.61	.66	.08	.17	.62	.48	.21	.41	.33	-.06
	Mechanical Comprehension (MC)	.41	.08	.10	.40	.50	.59	.51	.71	1.00	.63	.47	.57	.58	.17	.19	.70	.46	.24	.45	.42	.05
	General Science (GS)	.40	.14	.10	.62	.53	.40	.56	.58	.63	1.00	.85	.31	.42	.24	.27	.45	.59	.16	.45	.25	-.07
	General Biological Science (GB)	.37	.15	.12	.54	.37	.24	.49	.42	.47	.85	1.00	.31	.33	.24	.22	.32	.51	.15	.36	.16	-.06
	Shop Information (SI)	.36	.13	.04	.29	.29	.42	.28	.61	.57	.31	.31	1.00	.65	.18	.15	.47	.38	.26	.32	.43	.10
	Automotive Information (AI)	.36	.03	.02	.32	.27	.47	.25	.66	.58	.42	.33	.65	1.00	.09	-.01	.47	.41	.17	.19	.34	-.03
GATB	Name Comparison (NC)	.28	.62	.44	.22	.42	.27	.49	.08	.17	.24	.24	.18	.09	1.00	.63	.32	.36	.60	.57	.46	.41
	Computation (CO)	.23	.70	.36	.34	.59	.21	.67	.17	.19	.27	.22	.15	-.01	.63	1.00	.29	.45	.55	.75	.46	.33
	Dimensional Space (DS)	.30	.22	.21	.29	.43	.71	.49	.62	.70	.45	.32	.47	.47	.32	.29	1.00	.39	.39	.44	.51	.04
	Vocabulary (VO)	.47	.38	.24	.73	.59	.29	.62	.48	.46	.59	.51	.38	.41	.36	.45	.39	1.00	.29	.63	.32	.18
	Tool Matching (TM)	.13	.49	.49	.11	.33	.25	.39	.21	.24	.16	.15	.26	.17	.60	.55	.39	.29	1.00	.44	.54	.32
	Arithmetic Reasoning (AR)	.38	.55	.31	.55	.77	.34	.72	.41	.45	.45	.36	.32	.19	.57	.75	.44	.63	.44	1.00	.43	.24
	Form Matching (FM)	.22	.42	.35	.18	.38	.48	.43	.33	.42	.25	.16	.43	.34	.46	.46	.51	.32	.54	.43	1.00	.28
	Mark Making (MM)	-.15	.52	.46	-.01	.10	.12	.23	-.06	.05	-.07	-.06	.10	-.03	.41	.33	.04	.18	.32	.24	.28	1.00
Grade 11 - Females																						
ASVAB	General Information (GI)	1.00	.08	-.01	.27	.18	.07	.15	.16	.07	.20	.12	.30	.19	.03	.11	.11	.20	.07	.10	.05	-.08
	Numerical Operations (NO)	.08	1.00	.45	.34	.44	.39	.50	.25	.21	.09	.02	.33	.20	.57	.63	.37	.46	.45	.51	.41	.37
	Attention to Detail (AD)	-.01	.45	1.00	-.12	.13	.16	.08	.03	-.04	-.19	-.20	.10	.05	.32	.09	.14	-.08	.44	-.09	.34	.43
	Word Knowledge (WK)	.27	.34	-.12	1.00	.44	.18	.50	.35	.38	.47	.39	.32	.25	.27	.45	.25	.69	.08	.55	.11	-.14
	Arithmetic Reasoning (AR)	.18	.44	.13	.44	1.00	.66	.74	.32	.58	.35	.30	.34	.26	.31	.63	.54	.53	.24	.68	.26	.02
	Space Perception (SP)	.07	.39	.16	.18	.66	1.00	.60	.29	.48	.14	.22	.28	.13	.23	.54	.57	.26	.22	.49	.28	.04
	Math Knowledge (MK)	.15	.50	.08	.50	.74	.60	1.00	.46	.44	.45	.40	.35	.29	.40	.67	.42	.57	.33	.71	.34	.11
	Electronics Information (EI)	.16	.25	.03	.35	.32	.29	.46	1.00	.34	.48	.48	.49	.40	.27	.30	.36	.40	.17	.44	.17	.05
	Mechanical Comprehension (MC)	.07	.21	-.04	.38	.58	.48	.44	.34	1.00	.37	.32	.36	.25	.23	.46	.45	.45	.12	.53	.17	-.02
	General Science (GS)	.20	.09	-.19	.47	.35	.14	.45	.48	.37	1.00	.87	.43	.27	.02	.24	.25	.48	-.04	.37	.02	-.13
	General Biological Science (GB)	.12	.02	-.20	.39	.30	.22	.40	.48	.32	.87	1.00	.35	.30	-.01	.20	.26	.35	-.00	.31	-.04	-.20
	Shop Information (SI)	.30	.33	.10	.32	.34	.28	.35	.49	.36	.43	.35	1.00	.32	.20	.40	.38	.38	.22	.43	.24	.18
	Automotive Information (AI)	.19	.20	.05	.25	.26	.13	.29	.40	.25	.27	.30	.32	1.00	.15	.31	.16	.33	.13	.32	.13	.15
GATB	Name Comparison (NC)	.03	.57	.32	.27	.31	.23	.40	.27	.23	.02	-.01	.20	.15	1.00	.49	.31	.50	.63	.48	.45	.47
	Computation (CO)	.11	.63	.09	.45	.63	.51	.67	.30	.46	.24	.20	.40	.31	.49	1.00	.44	.62	.39	.80	.39	.27
	Dimensional Space (DS)	.11	.37	.14	.25	.54	.57	.42	.36	.45	.25	.26	.38	.16	.31	.44	1.00	.37	.30	.49	.24	.14
	Vocabulary (VO)	.20	.46	-.08	.69	.53	.26	.57	.40	.45	.48	.35	.38	.33	.50	.62	.37	1.00	.21	.73	.27	.09
	Tool Matching (TM)	.07	.45	.44	.08	.24	.22	.33	.17	.12	-.04	-.00	.22	.13	.63	.39	.30	.21	1.00	.28	.50	.47
	Arithmetic Reasoning (AR)	.10	.51	-.09	.55	.68	.49	.71	.44	.53	.37	.31	.43	.32	.48	.80	.49	.73	.28	1.00	.32	.16
	Form Matching (FM)	.05	.41	.34	.11	.26	.28	.34	.17	.17	.02	-.04	.24	.13	.45	.39	.24	.27	.50	.32	1.00	.28
	Mark Making (MM)	-.08	.37	.43	-.14	.02	.04	.11	.05	-.02	-.13	-.20	.18	.15	.47	.27	.14	.09	.47	.16	.28	1.00

Table 15. Twelfth Grade Intercorrelation - ASVAB and GATB

		ASVAB													GATB							
Grade 12 - Males		GI	NO	AD	WK	AR	SP	MK	EI	MC	GS	GB	SI	AI	NC	CO	DS	VO	TM	AR	FM	MM
ASVAB	General Information (GI)	1.00	.34	.12	.43	.32	.18	.35	.38	.42	.56	.54	.46	.17	.14	.24	.24	.37	.08	.34	.10	-.04
	Numerical Operations (NO)	.34	1.00	.63	.41	.62	.35	.56	.21	.43	.44	.48	.35	.01	.58	.76	.20	.52	.65	.57	.52	.55
	Attention to Detail (AD)	.12	.63	1.00	.28	.46	.16	.21	-.08	.10	.10	.22	.04	-.05	.33	.58	-.07	.23	.45	.32	.29	.50
	Word Knowledge (WK)	.43	.41	.28	1.00	.64	.48	.58	.35	.39	.64	.67	.43	.16	.40	.42	.24	.69	.25	.63	.21	.32
	Arithmetic Reasoning (AR)	.32	.62	.46	.64	1.00	.59	.71	.32	.51	.44	.48	.45	.29	.44	.72	.39	.56	.36	.72	.48	.30
	Space Perception (SP)	.18	.35	.16	.48	.59	1.00	.47	.60	.65	.48	.47	.59	.49	.35	.37	.69	.42	.33	.49	.52	.24
	Math Knowledge (MK)	.35	.56	.21	.58	.71	.47	1.00	.40	.58	.54	.54	.52	.06	.47	.59	.41	.65	.40	.75	.49	.27
	Electronics Information (EI)	.38	.21	-.08	.35	.32	.60	.40	1.00	.77	.65	.55	.73	.48	.17	.21	.61	.40	.27	.37	.40	.06
	Mechanical Comprehension (MC)	.42	.43	.10	.39	.51	.65	.58	.77	1.00	.67	.60	.70	.40	.28	.38	.68	.44	.30	.57	.51	.27
	General Science (GS)	.56	.44	.10	.64	.44	.48	.54	.65	.67	1.00	.91	.64	.20	.46	.39	.53	.68	.40	.58	.30	.21
	General Biological Science (GB)	.54	.48	.22	.67	.48	.47	.54	.55	.60	.91	1.00	.60	.17	.46	.44	.46	.68	.44	.52	.37	.25
	Shop Information (SI)	.46	.35	.04	.43	.45	.59	.52	.73	.70	.64	.60	1.00	.55	.24	.31	.57	.33	.29	.39	.49	.05
	Automotive Information (AI)	.17	.01	-.05	.16	.29	.49	.06	.48	.40	.20	.17	.55	1.00	-.11	.04	.42	-.03	.06	-.00	.30	-.07
GATB	Name Comparison (NC)	.14	.58	.33	.40	.44	.35	.47	.17	.28	.46	.46	.24	-.11	1.00	.64	.28	.60	.65	.58	.39	.38
	Computation (CO)	.24	.76	.58	.42	.72	.37	.59	.21	.38	.39	.44	.31	.04	.64	1.00	.26	.57	.68	.72	.56	.53
	Dimensional Space (DS)	.24	.20	-.07	.24	.39	.69	.41	.61	.68	.53	.46	.57	.42	.28	.26	1.00	.46	.31	.42	.51	.01
	Vocabulary (VO)	.37	.52	.23	.69	.56	.42	.65	.40	.44	.68	.68	.33	-.03	.60	.57	.46	1.00	.52	.76	.47	.31
	Tool Matching (TM)	.08	.65	.45	.25	.36	.33	.40	.27	.30	.40	.44	.29	.06	.65	.68	.31	.52	1.00	.45	.62	.49
	Arithmetic Reasoning (AR)	.34	.57	.32	.63	.72	.49	.75	.37	.57	.58	.52	.39	-.00	.58	.72	.42	.76	.45	1.00	.47	.35
	Form Matching (FM)	.10	.52	.29	.21	.48	.52	.49	.40	.51	.30	.37	.49	.30	.39	.56	.51	.47	.62	.47	1.00	.24
	Mark Making (MM)	-.04	.55	.50	.32	.30	.24	.27	.06	.27	.21	.25	.05	-.07	.38	.53	.01	.31	.49	.35	.24	1.00
Grade 12 - Females																						
ASVAB	General Information (GI)	1.00	.13	-.12	.46	.20	.10	.26	.24	.05	.40	.24	.23	.10	.28	.17	.12	.30	.18	.23	.12	.07
	Numerical Operations (NO)	.13	1.00	.38	.30	.51	.34	.59	.16	.23	.28	.21	.13	.22	.47	.62	.40	.33	.40	.47	.33	.16
	Attention to Detail (AD)	-.12	.38	1.00	.09	.16	.29	.28	.06	.08	.16	.09	.02	.11	.27	.22	.19	.19	.39	.23	.25	.20
	Word Knowledge (WK)	.46	.30	.09	1.00	.72	.61	.70	.51	.47	.76	.66	.40	.33	.36	.53	.61	.81	.34	.69	.37	-.02
	Arithmetic Reasoning (AR)	.20	.51	.16	.72	1.00	.63	.80	.35	.56	.66	.54	.32	.36	.42	.70	.66	.67	.26	.77	.51	-.11
	Space Perceptions (SP)	.10	.34	.29	.61	.63	1.00	.61	.40	.58	.59	.46	.45	.47	.35	.47	.72	.50	.35	.60	.49	.07
	Math Knowledge (MK)	.26	.59	.28	.70	.80	.61	1.00	.43	.50	.66	.55	.40	.31	.40	.69	.64	.68	.32	.75	.54	-.06
	Electronics Information (EI)	.24	.16	.06	.51	.35	.40	.43	1.00	.35	.55	.46	.26	.30	.11	.23	.42	.41	.16	.37	.06	-.03
	Mechanical Comprehension (MC)	.05	.23	.08	.47	.56	.58	.50	.35	1.00	.52	.45	.33	.40	.10	.24	.54	.28	.00	.44	.31	-.13
	General Science (GS)	.40	.28	.16	.76	.66	.59	.66	.55	.52	1.00	.87	.33	.26	.20	.42	.57	.64	.25	.56	.26	-.03
	General Biological Science (GB)	.24	.21	.09	.66	.54	.46	.55	.46	.45	.87	1.00	.23	.22	.07	.37	.44	.62	.18	.45	.26	-.02
	Shop Information (SI)	.23	.13	.02	.40	.32	.45	.40	.26	.33	.33	.23	1.00	.30	.31	.19	.44	.35	.17	.44	.20	-.11
	Automotive Information (AI)	.10	.22	.11	.33	.36	.47	.31	.30	.40	.26	.22	.30	1.00	.24	.30	.38	.20	.17	.34	.24	.03
GATB	Name Comparison (NC)	.28	.47	.27	.36	.42	.35	.40	.11	.10	.20	.07	.31	.24	1.00	.57	.41	.37	.55	.51	.44	.20
	Computation (CO)	.17	.62	.22	.53	.70	.47	.69	.23	.24	.42	.37	.19	.30	.57	1.00	.42	.64	.44	.75	.43	.23
	Dimensional Space (DS)	.12	.40	.19	.61	.66	.72	.64	.42	.54	.57	.44	.44	.38	.41	.42	1.00	.53	.37	.61	.50	.02
	Vocabulary (VO)	.30	.33	.19	.81	.67	.50	.68	.41	.28	.64	.62	.35	.20	.37	.64	.53	1.00	.40	.72	.44	.07
	Tool Matching (TM)	.18	.40	.39	.34	.26	.35	.32	.16	.00	.25	.18	.17	.17	.55	.44	.37	.40	1.00	.40	.36	.32
	Arithmetic Reasoning (AR)	.23	.47	.23	.69	.77	.60	.75	.37	.44	.56	.45	.44	.34	.51	.75	.61	.72	.40	1.00	.43	.09
	Form Matching (FM)	.12	.33	.25	.37	.51	.49	.54	.06	.31	.26	.26	.20	.24	.44	.43	.50	.44	.36	.43	1.00	.07
	Mark Making (MM)	.07	.16	.20	-.02	-.11	.07	-.06	-.03	-.13	-.03	-.02	-.11	.03	.20	.23	.02	.07	.32	.09	.07	1.00

Table 16. Tenth Grade Intercorrelation - ASVAB and DAT

		ASVAB													DAT							
Grade 10 - Males		GI	NO	AD	WK	AR	SP	MK	EI	MC	GS	GB	SI	AI	VR	NA	AR	CS	MR	SR	SG	LU
ASVAB	General Information (GI)	1.00	.33	.22	.51	.43	.23	.49	.44	.43	.49	.46	.43	.44	.49	.43	.39	.14	.24	.32	.35	.42
	Numerical Operations (NO)	.33	1.00	.51	.35	.50	.22	.55	.37	.31	.42	.33	.30	.18	.43	.54	.38	.51	.24	.34	.30	.42
	Attention to Detail (AD)	.22	.51	1.00	.10	.28	.22	.30	.14	.27	.20	.18	.21	.01	.18	.29	.29	.56	.15	.26	.17	.28
	Word Knowledge (WK)	.51	.35	.10	1.00	.46	.26	.59	.55	.48	.71	.63	.38	.40	.74	.53	.32	.10	.33	.41	.57	.74
	Arithmetic Reasoning (AR)	.43	.50	.28	.46	1.00	.39	.72	.52	.56	.46	.38	.46	.41	.64	.78	.57	.33	.40	.54	.41	.52
	Space Perception (SP)	.23	.22	.22	.26	.39	1.00	.44	.25	.60	.40	.37	.41	.23	.39	.39	.49	.28	.37	.67	.14	.25
	Math Knowledge (MK)	.49	.55	.30	.59	.72	.44	1.00	.57	.65	.66	.61	.49	.36	.68	.79	.62	.35	.41	.59	.45	.69
	Electronics Information (EI)	.44	.37	.14	.55	.52	.25	.57	1.00	.55	.58	.46	.58	.66	.54	.53	.37	.21	.38	.44	.34	.46
	Mechanical Comprehension (MC)	.43	.31	.27	.48	.56	.60	.65	.55	1.00	.59	.52	.55	.53	.60	.56	.54	.25	.61	.72	.26	.50
	General Science (GS)	.49	.42	.20	.71	.46	.40	.66	.58	.59	1.00	.91	.54	.50	.69	.53	.48	.22	.33	.47	.29	.61
	General Biological Science (GB)	.46	.35	.18	.63	.38	.37	.61	.46	.52	.71	1.00	.47	.44	.62	.46	.47	.19	.27	.43	.34	.56
	Shop Information (SI)	.43	.30	.21	.38	.46	.41	.49	.58	.55	.54	.47	1.00	.59	.47	.49	.43	.25	.41	.46	.37	.40
	Automotive Information (AI)	.44	.18	.01	.40	.41	.23	.36	.66	.53	.50	.44	.59	1.00	.38	.28	.26	.05	.38	.41	.21	.28
DAT	Verbal Reasoning (VR)	.49	.43	.18	.74	.64	.39	.68	.54	.60	.69	.62	.47	.38	1.00	.72	.58	.23	.45	.58	.56	.75
	Numerical Ability (NA)	.43	.54	.29	.53	.78	.39	.79	.53	.56	.53	.46	.45	.28	.72	1.00	.64	.36	.39	.54	.48	.62
	Abstract Reasoning (AR)	.39	.38	.29	.32	.57	.49	.62	.37	.54	.48	.47	.43	.26	.58	.64	1.00	.32	.40	.58	.25	.50
	Clerical S and A (CS)	.14	.51	.56	.10	.33	.28	.35	.21	.25	.22	.19	.25	.05	.23	.36	.32	1.00	.24	.31	.16	.28
	Mechanical Reasoning (MR)	.24	.24	.15	.33	.40	.37	.41	.38	.61	.33	.27	.41	.38	.45	.39	.40	.24	1.00	.59	.24	.39
	Space Relations (SR)	.32	.34	.26	.41	.54	.67	.59	.44	.72	.47	.43	.46	.41	.58	.54	.58	.31	.59	1.00	.27	.49
	Spelling (SG)	.35	.30	.17	.57	.41	.14	.45	.34	.26	.39	.34	.27	.21	.56	.48	.25	.16	.24	.27	1.00	.65
	Language Usage (LU)	.42	.42	.28	.74	.52	.25	.69	.46	.50	.61	.56	.40	.28	.75	.62	.50	.28	.39	.49	.65	1.00
Grade 10 - Females																						
ASVAB	General Information (GI)	1.00	.12	-.07	.55	.35	.37	.38	.33	.39	.24	.18	.42	.26	.52	.43	.34	-.02	.39	.39	.36	.54
	Numerical Operations (NO)	.12	1.00	.40	.18	.26	.07	.29	.12	.10	.21	.29	.23	-.08	.18	.33	.18	.31	.15	.09	.42	.15
	Attention to Detail (AD)	-.07	.40	1.00	.04	.15	.08	.25	-.06	.08	.06	.04	.07	.00	.05	.23	.18	.26	.11	.13	.27	.09
	Word Knowledge (WK)	.55	.18	.04	1.00	.71	.52	.69	.59	.60	.69	.55	.46	.25	.85	.69	.68	.09	.65	.66	.66	.82
	Arithmetic Reasoning (AR)	.35	.26	.15	.71	1.00	.46	.76	.51	.60	.61	.45	.42	.30	.74	.76	.67	.16	.61	.63	.66	.70
	Space Perception (SP)	.37	.07	.08	.52	.46	1.00	.48	.47	.60	.51	.41	.29	.23	.59	.52	.60	.03	.62	.74	.31	.50
	Math Knowledge (MK)	.38	.29	.25	.69	.76	.48	1.00	.48	.57	.63	.45	.44	.21	.75	.78	.74	.22	.64	.64	.64	.73
	Electronics Information (EI)	.33	.12	-.06	.59	.51	.47	.48	1.00	.53	.56	.45	.37	.24	.66	.58	.55	-.03	.46	.52	.43	.52
	Mechanical Comprehension (MC)	.39	.10	.08	.60	.60	.60	.57	.53	1.00	.53	.45	.36	.20	.65	.59	.68	.00	.67	.65	.35	.60
	General Science (GS)	.24	.21	.06	.69	.61	.51	.63	.56	.53	1.00	.87	.29	.11	.72	.69	.58	.04	.49	.47	.55	.61
	General Biological Science (GB)	.18	.29	.04	.55	.45	.41	.45	.45	.45	.87	1.00	.25	.08	.61	.56	.46	-.02	.36	.37	.43	.48
	Shop Information (SI)	.42	.23	.07	.46	.42	.29	.44	.37	.36	.29	.25	1.00	.29	.53	.39	.46	.11	.32	.40	.43	.44
	Automotive Information (AI)	.26	-.08	.00	.25	.30	.23	.21	.24	.20	.11	.08	.29	1.00	.30	.21	.26	-.05	.28	.28	.33	.28
DAT	Verbal Reasoning (VR)	.52	.18	.05	.85	.74	.59	.75	.66	.65	.72	.61	.53	.30	1.00	.76	.77	.06	.68	.72	.63	.84
	Numerical Ability (NA)	.43	.33	.23	.69	.76	.52	.78	.58	.59	.69	.56	.39	.21	.76	1.00	.71	.08	.65	.65	.58	.69
	Abstract Reasoning (AR)	.34	.18	.18	.68	.67	.60	.74	.55	.68	.58	.46	.46	.26	.77	.71	1.00	.22	.68	.78	.54	.75
	Clerical S and A (CS)	-.02	.31	.26	.09	.16	.03	.22	-.03	.00	.04	-.02	.11	-.05	.06	.08	.22	1.00	.14	.08	.28	.15
	Mechanical Reasoning (MR)	.39	.15	.11	.65	.61	.62	.64	.46	.67	.49	.36	.32	.28	.68	.65	.68	.14	1.00	.74	.35	.63
	Space Relations (SR)	.39	.09	.13	.66	.63	.74	.66	.52	.65	.47	.37	.40	.28	.72	.65	.78	.08	.74	1.00	.43	.66
	Spelling (SG)	.36	.42	.27	.66	.66	.31	.64	.43	.35	.55	.43	.43	.33	.63	.58	.54	.28	.35	.43	1.00	.64
	Language Usage (LU)	.54	.15	.09	.82	.70	.50	.73	.52	.60	.61	.48	.44	.28	.84	.69	.75	.15	.63	.66	.64	1.00

Table 17. Eleventh Grade Intercorrelation - ASVAB and DAT

		ASVAB													DAT							
Grade 11 - Males		GI	NO	AD	WK	AR	SP	MK	EI	MC	GS	GB	SI	AI	VR	NA	AR	CS	MR	SR	SG	LU
ASVAB	General Information (GI)	1.00	.38	.14	.57	.51	.30	.52	.53	.49	.54	.51	.51	.55	.56	.46	.37	.11	.34	.37	.42	.54
	Numerical Operations (NO)	.38	1.00	.51	.51	.57	.24	.58	.46	.41	.45	.45	.46	.23	.49	.58	.44	.56	.30	.30	.53	.52
	Attention to Detail (AD)	.14	.51	1.00	.18	.24	.34	.37	.28	.28	.23	.20	.22	.07	.23	.29	.35	.48	.24	.30	.25	.28
	Word Knowledge (WK)	.57	.51	.18	1.00	.70	.33	.63	.60	.54	.73	.68	.48	.44	.81	.68	.52	.26	.53	.45	.73	.80
	Arithmetic Reasoning (AR)	.51	.57	.24	.70	1.00	.57	.79	.61	.59	.67	.60	.48	.42	.75	.83	.66	.30	.48	.58	.48	.67
	Space Perception (SP)	.30	.24	.34	.33	.57	1.00	.50	.50	.57	.46	.34	.40	.39	.53	.49	.62	.20	.42	.75	.19	.40
	Math Knowledge (MK)	.52	.58	.37	.63	.79	.50	1.00	.57	.61	.65	.56	.50	.41	.71	.86	.62	.35	.46	.57	.57	.65
	Electronics Information (EI)	.53	.46	.28	.60	.61	.50	.57	1.00	.73	.73	.65	.75	.69	.61	.56	.52	.30	.59	.51	.40	.55
	Mechanical Comprehension (MC)	.49	.41	.28	.54	.59	.57	.61	.73	1.00	.65	.55	.69	.71	.61	.58	.57	.22	.70	.64	.41	.51
	General Science (GS)	.54	.45	.23	.73	.67	.46	.65	.73	.65	1.00	.91	.57	.52	.72	.65	.60	.29	.50	.51	.59	.66
	General Biological Science (GB)	.51	.45	.20	.68	.60	.34	.56	.65	.55	.91	1.00	.53	.41	.64	.58	.53	.26	.42	.39	.52	.59
	Shop Information (SI)	.51	.46	.22	.48	.48	.40	.50	.75	.69	.57	.53	1.00	.69	.51	.47	.44	.31	.48	.40	.38	.46
	Automotive Information (AI)	.55	.23	.07	.44	.42	.39	.41	.69	.71	.52	.41	.69	1.00	.46	.39	.32	.13	.61	.43	.29	.41
DAT	Verbal Reasoning (VR)	.56	.49	.23	.81	.75	.53	.71	.61	.61	.72	.64	.51	.46	1.00	.74	.64	.30	.52	.63	.67	.81
	Numerical Ability (NA)	.46	.58	.29	.68	.83	.49	.86	.56	.58	.65	.58	.47	.39	.74	1.00	.69	.32	.53	.61	.60	.73
	Abstract Reasoning (AR)	.37	.44	.35	.52	.66	.62	.62	.52	.57	.60	.53	.44	.32	.64	.69	1.00	.35	.53	.69	.31	.52
	Clerical S and A (CS)	.11	.56	.48	.26	.30	.20	.35	.30	.22	.29	.26	.31	.13	.30	.32	.35	1.00	.22	.24	.21	.35
	Mechanical Reasoning (MR)	.34	.30	.24	.53	.48	.42	.46	.59	.70	.50	.42	.48	.61	.52	.53	.53	.22	1.00	.65	.32	.47
	Space Relations (SR)	.37	.30	.30	.45	.58	.75	.57	.51	.64	.51	.39	.40	.43	.63	.61	.69	.24	.65	1.00	.33	.51
	Spelling (SG)	.42	.53	.25	.73	.48	.19	.57	.40	.41	.59	.52	.38	.29	.67	.60	.31	.21	.32	.33	1.00	.73
	Language Usage (LU)	.54	.52	.28	.80	.67	.40	.65	55	.51	.66	.59	.46	.41	.81	.73	.52	.35	.47	.51	.73	1.00
Grade 11 - Females																						
ASVAB	General Information (GI)	1.00	.27	.08	.43	.31	.38	.35	.35	.38	.38	.31	.40	.09	.47	.37	.31	.15	.33	.34	.17	.43
	Numerical Operations (NO)	.27	1.00	.25	.27	.45	.14	.49	.20	.30	.22	.17	.15	-.01	.34	.57	.40	.59	.34	.26	.34	.36
	Attention to Detail (AD)	.08	.25	1.00	-.08	.13	.04	.03	.06	.01	-.02	.01	.09	-.17	.02	.07	.07	.40	.06	.11	.08	.05
	Word Knowledge (WK)	.43	.27	-.08	1.00	.61	.42	.69	.57	.57	.69	.63	.24	.18	.84	.61	.58	.17	.56	.52	.55	.76
	Arithmetic Reasoning (AR)	.31	.45	.13	.61	1.00	.44	.75	.45	.60	.56	.46	.19	.08	.68	.76	.71	.33	.64	.57	.38	.68
	Space Perception (SP)	.38	.14	.04	.42	.44	1.00	.49	.38	.56	.55	.45	.34	.07	.57	.58	.64	.17	.66	.78	.22	.53
	Math Knowledge (MK)	.35	.49	.03	.69	.75	.49	1.00	.46	.53	.64	.58	.28	.04	.79	.86	.76	.35	.67	.62	.54	.70
	Electronics Information (EI)	.35	.20	.06	.57	.45	.38	.46	1.00	.47	.45	.43	.31	.25	.60	.43	.40	.12	.43	.45	.39	.54
	Mechanical Comprehension (MC)	.38	.30	.01	.57	.60	.56	.53	.47	1.00	.47	.37	.25	.20	.62	.56	.56	.23	.66	.63	.36	.58
	General Science (GS)	.38	.22	-.02	.69	.56	.55	.64	.45	.47	1.00	.89	.22	.17	.65	.55	.59	.20	.55	.58	.27	.59
	General Biological Science (GB)	.31	.17	.01	.63	.46	.45	.58	.43	.37	.89	1.00	.21	.13	.57	.45	.47	.20	.46	.49	.29	.54
	Shop Information (SI)	.40	.15	.09	.24	.19	.34	.28	.31	.25	.22	.21	1.00	.04	.34	.21	.20	.01	.35	.29	.15	.25
	Automotive Information (AI)	.09	-.01	-.17	.18	.08	.07	.04	.25	.20	.17	.13	.04	1.00	.12	.05	.00	-.07	.04	.13	.00	.01
DAT	Verbal Reasoning (VR)	.47	.34	.02	.84	.68	.57	.79	.60	.62	.65	.57	.34	.12	1.00	.74	.76	.22	.71	.66	.59	.80
	Numerical Ability (NA)	.37	.57	.07	.61	.76	.58	.86	.43	.56	.55	.45	.21	.05	.74	1.00	.79	.34	.69	.67	.52	.70
	Abstract Reasoning (AR)	.31	.40	.07	.58	.71	.64	.76	.40	.56	.59	.47	.20	.00	.76	.79	1.00	.29	.70	.72	.46	.68
	Clerical S and A (CS)	.15	.59	.40	.17	.33	.17	.35	.12	.23	.20	.20	.01	-.07	.22	.34	.29	1.00	.28	.25	.21	.23
	Mechanical Reasoning (MR)	.33	.34	.06	.56	.64	.66	.67	.43	.66	.55	.46	.35	.04	.71	.69	.70	.28	1.00	.72	.42	.66
	Space Relations (SR)	.34	.26	.11	.52	.59	.78	.62	.45	.63	.58	.49	.29	.13	.66	.67	.72	.25	.72	1.00	.29	.53
	Spelling (SG)	.17	.34	.08	.55	.38	.22	.54	.39	.36	.27	.29	.15	.00	.59	.52	.46	.21	.42	.29	1.00	.67
	Language Usage (LU)	.43	.36	.05	.76	.68	.53	.70	.56	.58	.59	.56	.25	.01	.80	.70	.68	.23	.66	.53	.67	1.00

Table 18. Twelfth Grade Intercorrelation - ASVAB and DAT

		ASVAB													DAT							
Grade 12 - Males		GI	NO	AD	WK	AR	SP	MK	EI	MC	GS	GB	SI	AI	VR	NA	AR	CS	MR	SR	SG	LU
ASVAB	General Information (GI)	1.00	.07	-.07	.53	.28	.01	.36	.54	.36	.57	.52	.34	.42	.45	.26	.26	-.07	.36	.10	.21	.40
	Numerical Operations (NO)	.07	1.00	.45	.44	.64	.22	.58	-.03	.32	.10	.10	-.05	-.15	.33	.66	.41	.46	.22	.31	.40	.37
	Attention to Detail (AD)	-.07	.45	1.00	.01	.30	.21	.31	-.14	.02	-.04	.10	-.01	-.08	.20	.33	.27	.50	.02	.19	.20	.22
	Word Knowledge (WK)	.53	.14	.01	1.00	.42	.22	.51	.47	.35	.72	.51	.36	.39	.69	.37	.29	.10	.48	.28	.45	.69
	Arithmetic Reasoning (AR)	.28	.64	.30	.42	1.00	.47	.84	.38	.65	.47	.41	.30	.24	.73	.86	.73	.24	.59	.68	.41	.60
	Space Perception (SP)	.01	.22	.21	.22	.47	1.00	.49	.47	.58	.37	.23	.56	.31	.48	.43	.60	.08	.57	.81	.19	.35
	Math Knowledge (MK)	.36	.58	.31	.51	.84	.49	1.00	.47	.58	.59	.54	.29	.24	.78	.87	.74	.22	.61	.60	.49	.68
	Electronics Information (EI)	.54	-.03	-.14	.47	.38	.47	.47	1.00	.60	.68	.56	.66	.62	.56	.27	.48	-.27	.66	.47	.17	.32
	Mechanical Comprehension (MC)	.36	.32	.02	.35	.65	.58	.58	.60	1.00	.47	.34	.59	.46	.59	.54	.60	-.04	.77	.73	.17	.43
	General Science (GS)	.57	.10	-.04	.72	.47	.37	.59	.68	.47	1.00	.85	.52	.44	.69	.44	.42	-.01	.56	.41	.37	.59
	General Biological Science (GB)	.52	.10	.10	.51	.41	.23	.54	.56	.34	.85	1.00	.36	.34	.59	.38	.39	.00	.39	.32	.34	.52
	Shop Information (SI)	.34	-.05	-.01	.36	.30	.56	.29	.66	.59	.52	.36	1.00	.70	.42	.21	.41	-.02	.59	.57	.10	.27
	Automotive Information (AI)	.42	-.15	-.08	.39	.24	.31	.24	.62	.46	.44	.34	.70	1.00	.36	.16	.35	-.20	.53	.36	.03	.24
DAT	Verbal Reasoning (VR)	.45	.33	.20	.69	.73	.48	.78	.56	.59	.69	.59	.42	.36	1.00	.74	.67	.06	.65	.57	.52	.80
	Numerical Ability (NA)	.26	.66	.33	.37	.86	.43	.87	.27	.54	.44	.38	.21	.16	.74	1.00	.72	.30	.49	.58	.52	.69
	Abstract Reasoning (AR)	.26	.41	.27	.29	.73	.60	.74	.48	.60	.42	.39	.41	.35	.67	.72	1.00	.09	.70	.66	.31	.50
	Clerical S and A (CS)	-.07	.46	.50	.10	.24	.08	.22	-.27	-.04	-.01	.00	-.02	-.20	.06	.30	.09	1.00	-.02	.09	.37	.28
	Mechanical Reasoning (MR)	.36	.22	.02	.48	.59	.57	.61	.66	.77	.56	.39	.59	.53	.65	.49	.70	-.02	1.00	.68	.28	.47
	Space Relations (SR)	.10	.31	.19	.28	.68	.81	.60	.47	.73	.41	.32	.57	.36	.57	.58	.66	.09	.68	1.00	.25	.38
	Spelling (SG)	.21	.40	.20	.45	.41	.19	.49	.17	.17	.37	.34	.10	.03	.52	.52	.31	.37	.28	.25	1.00	.68
	Language Usage (LU)	.40	.37	.22	.69	.60	.35	.68	.32	.43	.59	.52	.27	.24	.80	.69	.50	.28	.47	.38	.68	1.00
Grade 12 - Females																						
ASVAB	General Information (GI)	1.00	.29	.08	.44	.50	.22	.36	.34	.33	.23	.26	.09	.24	.44	.40	.28	.17	.29	.23	.28	.39
	Numerical Operations (NO)	.29	1.00	.38	.48	.55	.35	.59	.29	.33	.27	.23	.09	.14	.55	.67	.58	.50	.39	.36	.59	.44
	Attention to Detail (AD)	.08	.38	1.00	.01	.07	-.05	.17	.21	-.06	-.10	-.06	-.16	-.06	.15	.21	.25	.32	.01	.07	.24	.15
	Word Knowledge (WK)	.44	.48	.01	1.00	.72	.50	.68	.64	.53	.63	.56	.25	.36	.83	.70	.48	.24	.55	.54	.55	.74
	Arithmetic Reasoning (AR)	.50	.55	.07	.72	1.00	.41	.82	.57	.51	.53	.45	.21	.29	.82	.79	.55	.22	.53	.52	.40	.68
	Space Perception (SP)	.22	.35	-.05	.50	.41	1.00	.49	.46	.47	.42	.38	.27	.27	.55	.47	.46	.20	.55	.74	.32	.45
	Math Knowledge (MK)	.36	.59	.17	.68	.82	.49	1.00	.55	.50	.55	.50	.28	.21	.82	.87	.64	.20	.55	.57	.55	.71
	Electronics Information (EI)	.34	.29	.21	.64	.57	.46	.55	1.00	.70	.62	.57	.65	.55	.63	.53	.41	.15	.51	.54	.36	.54
	Mechanical Comprehension (MC)	.33	.33	-.06	.53	.51	.47	.50	.70	1.00	.60	.52	.52	.57	.60	.51	.47	.16	.54	.56	.31	.51
	General Science (GS)	.23	.27	-.10	.63	.53	.42	.55	.62	.60	1.00	.93	.47	.59	.63	.51	.33	.07	.41	.47	.34	.51
	General Biological Science (GB)	.26	.23	-.06	.56	.45	.38	.50	.57	.52	.93	1.00	.45	.57	.57	.44	.33	.08	.37	.40	.38	.47
	Shop Information (SI)	.09	.09	-.16	.25	.21	.27	.28	.65	.52	.47	.45	1.00	.37	.26	.22	.12	-.01	.25	.33	.23	.25
	Automotive Information (AI)	.24	.14	-.06	.36	.29	.27	.21	.53	.57	.59	.57	.37	1.00	.31	.17	.17	.02	.24	.26	.14	.21
DAT	Verbal Reasoning (VR)	.44	.55	.15	.83	.82	.55	.82	.63	.60	.63	.57	.26	.31	1.00	.86	.68	.29	.68	.67	.58	.83
	Numerical Ability (NA)	.40	.67	.21	.70	.79	.47	.87	.53	.51	.51	.44	.22	.17	.86	1.00	.68	.37	.64	.61	.62	.78
	Abstract Reasoning (AR)	.28	.58	.25	.48	.55	.46	.64	.41	.47	.33	.33	.12	.17	.68	.68	1.00	.51	.70	.67	.44	.59
	Clerical S and A (CS)	.17	.50	.32	.24	.22	.20	.20	.15	.16	.07	.08	-.01	.02	.29	.37	.51	1.00	.31	.25	.29	.16
	Mechanical Reasoning (MR)	.29	.39	.01	.55	.53	.55	.55	.51	.54	.41	.37	.25	.24	.68	.64	.70	.31	1.00	.79	.45	.68
	Space Relations (SR)	.23	.36	.07	.54	.52	.74	.57	.54	.56	.47	.40	.33	.26	.67	.61	.67	.25	.79	1.00	.37	.56
	Spelling (SG)	.28	.59	.24	.55	.40	.32	.55	.36	.31	.34	.38	.23	.14	.58	.62	.44	.29	.45	.37	1.00	.64
	Language Usage (LU)	.39	.44	.15	.74	.68	.45	.71	.54	.51	.51	.47	.25	.23	.83	.78	.59	.16	.68	.56	.64	1.00

ASVAB correlated most highly with Tool Matching of the GATB and Clerical Speed and Accuracy of the DAT. These correlations were somewhat lower than for the other tests, ranging from .31 to .56.

The other tests in the ASVAB are information or achievement type tests which have no counterpart in the multiple aptitude tests. The correlations of these tests with the tests in the GATB and the DAT are moderate at best. They correlated most highly with the Vocabulary tests in the GATB and DAT.

Prediction Equations

For each sample, equations were developed to predict ASVAB test scores from the DAT and GATB test scores. These equations were developed by using standard multiple regression techniques and were developed for each grade by sex. Stepwise regression techniques were used to develop the equations. The order of inclusion of the tests in the equation is determined by the contribution of the test to the explained variance. The test that contributes the largest amount is selected first. The computations were stopped when inclusion of the test did not add a significant amount of variance to the predictive equations. The general form of the regression equation is

$$Y' = A + B_1X_1 + B_2X_2 + \cdots + B_nX_n ,$$

where Y' is the estimated value for Y, A is the Y intercept, and B is the unstandardized regression coefficients. In addition to the computation of the unstandardized regression coefficients, standardized regression coefficients (β) were computed, along with the multiple correlation coefficient, the standard error of the multiple correlation, and the standard error of the unstandardized regression coefficients. The multiple correlation coefficients are presented in Tables 19 through 21. In general, the DAT produced higher multiple correlation coefficients than the GATB, and the males produced higher multiple correlations than the females. The multiple correlation coefficients were highest for Word Knowledge, Arithmetic Reasoning, and Mathematical Knowledge, reaching the high eighties. The multiple correlations for Numerical Operations, Mechanical Comprehension, and Space Perception were somewhat lower, reaching the high seventies. Attention to Detail had still lower multiple correlations. For the information type tests in the ASVAB, the multiple correlations were low to moderate.

The prediction equations are presented in Tables 22 through 24. The ASVAB test score to be predicted is presented at the top of each table and the DAT tests and GATB tests to be used in the prediction are on the left of the tables. The first line for each ASVAB test contains the multiple correlation coefficient and the standard error of the multiple correlation coefficient. The next eight lines are the DAT or GATB tests. If the DAT or GATB test is used in the predictive equation, it is followed by the beta, B coefficient, and standard error of the B coefficient. The last line contains the constant for the unstandardized regression equation. The unstandardized regression equation for tenth

Table 19. Multiple Correlation Coefficients - Tenth Grade

ASVAB Component	Male		Female	
	DAT	GATB	DAT	GATB
General Information	.51	.38	.54	.33
Numerical Operations	.64	.77	.55	.53
Attention to Detail	.58	.53	.44	.42
Word Knowledge	.81	.80	.88	.74
Arithmetic Reasoning	.79	.73	.83	.69
Space Perception	.69	.62	.74	.57
Math Knowledge	.84	.71	.84	.72
Electronics Information	.59	.64	.66	.57
Mechanical Comprehension	.78	.70	.75	.53
General Science	.71	.65	.75	.60
General Biological Science	.65	.52	.63	.52
Shop Information	.54	.45	.54	.47
Automotive Information	.47	.48	.37	.37

Table 20. Multiple Correlation Coefficients - Eleventh Grade

ASVAB Component	Male		Female	
	DAT	GATB	DAT	GATB
General Information	.58	.54	.52	.20
Numerical Operations	.74	.78	.74	.69
Attention to Detail	.52	.58	.40	.59
Word Knowledge	.88	.77	.86	.72
Arithmetic Reasoning	.76	.79	.81	.75
Space Perception	.77	.72	.80	.67
Math Knowledge	.86	.80	.89	.74
Electronics Information	.69	.71	.61	.44
Mechanical Comprehension	.76	.55	.71	.57
General Science	.77	.66	.72	.54
General Biological Science	.66	.54	.60	.46
Shop Information	.59	.58	.40	.47
Automotive Information	.63	.63	NS*	.32

*Not significant

Table 21. Multiple Correlation Coefficients - Twelfth Grade

ASVAB Component	Male		Female	
	DAT	GATB	DAT	GATB
General Information	.54	.37	.44	.31
Numerical Operations	.74	.78	.77	.66
Attention to Detail	.55	.62	.44	.39
Word Knowledge	.76	.73	.84	.84
Arithmetic Reasoning	.89	.81	.85	.86
Space Perception	.81	.73	.74	.75
Math Knowledge	.90	.75	.89	.82
Electronics Information	.74	.61	.65	.53
Mechanical Comprehension	.82	.75	.64	.62
General Science	.69	.72	.63	.70
General Biological Science	.59	.68	.57	.67
Shop Information	.66	.61	.33	.52
Automotive Information	.53	.49	.31	.38

Table 22. Prediction Equations - Tenth Grade

	General Information			Numerical Operations			Attention to Detail			Word Knowledge			Arithmetic Reasoning			Space Perception			Math Knowledge		
Males	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE
DAT (Multiple R) (SE)	(.508)	(2.014)		(.637)	(7.360)		(.579)	(3.629)		(.809)	(3.763)		(.789)	(2.667)		(.692)	(3.137)		(.843)	(2.588)	
Verbal Reasoning	.399	.086	.018							.524	.307	.044									
Numerical Ability				.403	.447	.073							.685	.331	.028				.517	.276	.031
Abstract Reasoning	.160	.040	.021							-.201	-.138	.040				.196	.091	.034			
Clerical S & A				.368	.387	.069	.526	.247	.032												
Mechanical Reasoning																					
Space Relations													.168	.060	.021	.630	.223	.026	.166	.065	.021
Spelling																					
Language Usage							.135	.057	.028	.448	.270	.043				-.152	-.062	.028	.295	.134	.025
(Constant)		(6.068)			(6.925)			(1.846)			(7.913)			(2.825)			(2.546)			(0.946)	
GATB (Multiple R) (SE)	(.379)	(2.232)		(.771)	(5.962)		(.529)	(3.287)		(.804)	(3.634)		(.733)	(2.726)		(.623)	(3.316)		(.712)	(2.927)	
Name Comparison				.322	.254	.179							-.137	-.046	.024						
Computation				.387	.794	.053															
Dimensional Space																.623	.450	.050			
Vocabulary	.379	.149	.032							.804	.799	.052	.388	.250	.052				.387	.261	.053
Tool Matching							.248	.172	.064												
Arithmetic Reasoning				.201	.592	.247							.493	.619	.100				.406	.533	.104
Form Matching							.178	.112	.039												
Mark Making							.246	.102	.050												
(Constant)		(6.387)			(-1.329)			(-1.911)			(4.214)			(3.263)			(2.336)			(3.292)	
Females																					
DAT (Multiple R) (SE)	(.538)	(1.751)		(.548)	(7.138)		(.435)	(4.269)		(.878)	(3.004)		(.826)	(2.224)		(.742)	(2.670)		(.844)	(2.472)	
Verbal Reasoning							-.431	-.161	.060	.495	.247	.048									
Numerical Ability				.364	.372	.135	.388	.227	.089				.419	.205	.044				.424	.242	.049
Abstract Reasoning																			.316	.147	.038
Clerical S & A				.231	.136	.054	.181	.059	.033												
Mechanical Reasoning													.223	.091	.032						
Space Relations																.742	.240	.023			
Spelling				.402	.190	.059	.271	.071	.035	.143	.050	.024	.341	.075	.016				.230	.059	.019
Language Usage	.538	.106	.017	-.391	-.309	.108				.314	.184	.057									
(Constant)		(4.212)			(20.586)			(7.325)			(1.578)			(-2.836)			(2.838)			(-1.630)	
GATB (Multiple R) (SE)	(.326)	(1.961)		(.532)	(7.285)		(.416)	(4.129)		(.735)	(3.827)		(.689)	(2.594)		(.571)	(3.113)		(.718)	(2.895)	
Name Comparison																					
Computation	.167	.091	.052	.189	.426	.215													.269	.294	.085
Dimensional Space										.133	.143	.071	.238	.161	.049	.571	.414	.054	.282	.222	.053
Vocabulary	.218	.079	.034				-.182	-.144	.070	.676	.667	.065	.171	.106	.051						
Tool Matching				.283	.427	.127	.436	.348	.069												
Arithmetic Reasoning				.210	.701	.324							.449	.624	.112				.381	.615	.130
Form Matching																					
Mark Making																					
(Constant)		(4.085)			(5.883)			(7.197)			(1.676)			(-0.199)			(2.717)			(-4.035)	

Table 22 (continued)

		Electronics Information			Mechanical Comprehension			General Science			General Biological Science			Shop Information			Automotive Information		
Males		β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE
DAT	(Multiple R) (SE)	(.592)	(4.699)		(.781)	(-1.471)		(.707)	(2.835)		(.645)	(1.642)		(.538)	(3.230)		(.468)	(3.884)	
	Verbal Reasoning	.267	.143	.052	.231	.091	.024	.536	.198	.031	.377	.074	.019	.284	.100	.029	.180	.072	.035
	Numerical Ability	.279	.180	.061															
	Abstract Reasoning										.149	.034	.017						
	Clerical S & A																		
	Mechanical Reasoning	.154	.092	.043	.242	.106	.028							.161	.063	.033	.189	.085	.040
	Space Relations				.446	.152	.024							.199	.062	.029	.192	.069	.035
	Spelling																		
	Language Usage							.211	.080	.032	.204	.042	.019						
	(Constant)		(6.554)			(-1.471)			(4.400)			(1.874)			(5.330)			(1.527)	
GATB	(Multiple R) (SE)	(.643)	(4.037)		(.699)	(2.881)		(.652)	(3.064)		(.517)	(1.773)		(.451)	(3.200)		(.477)	(3.472)	
	Name Comparison							-.301	-.103	.030				-.256	-.077	.029	-.196	-.065	.030
	Computation																		
	Dimensional Space	.442	.393	.071	.330	.224	.049										.398	.265	.057
	Vocabulary	.385	.327	.068	.345	.224	.056	.663	.432	.050	.517	.174	.026	.434	.251	.053			
	Tool Matching							.218	.159	.062									
	Arithmetic Reasoning				.184	.232	.103										.240	.298	.112
	Form Matching	-.188	-.146	.060										.180	.095	.049			
	Mark Making																		
	(Constant)		(9.022)			(0.337)			(3.854)			(3.025)			(9.355)			(4.320)	
Females																			
DAT	(Multiple R) (SE)	(.656)	(2.856)		(.750)	(1.861)		(.749)	(2.235)		(.628)	(1.452)		(.535)	(2.261)		(.372)	(1.845)	
	Verbal Reasoning	.656	.200	.024				.468	.126	.029	.430	.064	.019	.437	.094	.025			
	Numerical Ability							.328	.139	.046	.235	.055	.030						
	Abstract Reasoning				.443	.126	.028												
	Clerical S & A				-.156	-.030	.014												
	Mechanical Reasoning				.393	.114	.028										.184	.021	.012
	Space Relations																		
	Spelling													.156	.024	.017	.266	.012	.021
	Language Usage																		
	(Constant)		(8.888)			(0.022)			(3.105)			(2.370)			(4.485)			(2.584)	
GATB	(Multiple R) (SE)	(.565)	(3.075)		(.534)	(2.559)		(.598)	(2.336)		(.516)	(1.641)		(.471)	(2.455)		(.368)	(2.054)	
	Name Comparison	-.190	-.065	.030	-.203	-.057	.024												
	Computation																		
	Dimensional Space	.211	.148	.060	.297	.170	.048	.218	.121	.043							.225	.095	.038
	Vocabulary	.428	.276	.056	.401	.211	.046	.483	.246	.040	.378	.127	.031	.361	.175	.041	.221	.085	.035
	Tool Matching													.210	.103	.041			
	Arithmetic Reasoning										.199	.149	.070						
	Form Matching	.190	.135	.062															
	Mark Making																		
	(Constant)		(6.297)			(3.911)			(3.269)			(1.763)			(2.223)			(2.605)	

Table 23. Prediction Equations - Eleventh Grade

	General Information			Numerical Operations			Attention to Detail			Word Knowledge			Arithmetic Reasoning			Space Perception			Math Knowledge		
Males	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE
DAT (Multiple R) (SE)	(.578)	(2.053)		(.735)	(7.598)		(.518)	(3.787)		(.877)	(3.089)		(.859)	(2.332)		(.765)	(3.029)		(.863)	(2.574)	
Verbal Reasoning	.356	.073	.026							.456	.237	.045	.375	.138	.029				.156	.065	.029
Numerical Ability				.294	.330	.090							.638	.291	.033				.741	.380	.036
Abstract Reasoning																					
Clerical S & A				.405	.378	.062	.432	.160	.030							.207	.098	.038			
Mechanical Reasoning										.225	.125	.034									
Space Relations							.201	.067	.027	-.190	-.090	.031									
Spelling				.267	.148	.044				.236	.075	.021				.609	.215	.029			
Language Usage	.251	.057	.029							.241	.138	.049	-.149	-.034	.015						
(Constant)		(5.908)			(0.075)			(4.261)			(0.993)			(4.724)			(1.210)			(3.399)	
GATB (Multiple R) (SE)	(.544)	(1.882)		(.781)	(6.308)		(.582)	(3.288)		(.765)	(3.719)		(.785)	(2.566)		(.721)	(3.319)		(.797)	(2.874)	
Name Comparison				.211	.188	.069													.332	.342	.088
Computation				.483	1.065	.166													.191	.151	.051
Dimensional Space																.627	.504	.060	.249	.202	.080
Vocabulary	.395	.152	.039							.641	.632	.077	.181	.129	.053						
Tool Matching							.379	.288	.061												
Arithmetic Reasoning	.191	.148	.079							.235	.475	.166	.659	.947	.107				.230	.376	.165
Form Matching										-.132	-.142	.075				.160	.126	.059			
Mark Making	-.263	-.069	.021	.268	.312	.075	.338	.159	.037	-.135	-.089	.043									
(Constant)		(10.025)			(-17.382)			(-5.161)			(13.423)			(0.246)			(-1.797)			(3.966)	
Females																					
DAT (Multiple R) (SE)	(.514)	(1.927)		(.736)	(6.716)		(.396)	(3.987)		(.861)	(3.114)		(.807)	(2.462)		(.797)	(2.576)		(.891)	(2.152)	
Verbal Reasoning	.407	.071	.025							.763	.364	.047							.351	.130	.25
Numerical Ability				.586	.626	.100							.454	.202	.046				.600	.307	.34
Abstract Reasoning										-.185	-.126	.054	.196	.090	.046						
Clerical S & A				.458	.384	.060	.396	.146	.034												
Mechanical Reasoning																.202	.089	.039			
Space Relations				-.251	-.217	.079										.639	.238	.032			
Spelling	-.247	-.037	.018										-.184	-.051	.022						
Language Usage	.268	.056	.033							.274	.156	.049	.352	.136	.039						
(Constant)		(6.913)			(10.548)			(8.458)			(8.028)			(3.113)			(0.047)			(3.204)	
GATB (Multiple R) (SE)	(.204)	(1.825)		(.691)	(7.129)		(.592)	(4.176)		(.719)	(3.755)		(.747)	(2.628)		(.666)	(3.112)		(.735)	(2.929)	
Name Comparison				.339	.287	.073															
Computation				.456	.870	.163							.272	.204	.089	.458	.366	.082	.286	.238	.096
Dimensional Space													.272	.228	.067	.433	.386	.077			
Vocabulary	.204	.069	.034							.707	.696	.071				-.182	-.182	.075			
Tool Matching							.280	.245	.094												
Arithmetic Reasoning							-.286	-.459	.144				.352	.432	.146				.486	.658	.156
Form Matching							.216	.185	.085												
Mark Making							.287	.175	.058												
(Constant)		(6.232)			(1.159)			(-5.318)			(14.072)			(3.869)			(-1.952)			(0.682)	

Table 23 (continued)

		Electronics Information			Mechanical Comprehension			General Science			General Biological Science			Shop Information			Automotive Information		
Males		β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE
DAT	(Multiple R) (SE)	(.686)	(4.474)		(.765)	(2.852)		(.766)	(2.794)		(.662)	(1.588)		(.585)	(3.222)		(.629)	(3.737)	
	Verbal Reasoning	.409	.205	.039	.263	.094	.028	.361	.128	.036	.475	.082	.018	.310	.106	.031	.197	.078	.033
	Numerical Ability										.227	.048	.219						
	Abstract Reasoning							.281	.122	.034									
	Clerical S & A													.149	.052	.028			
	Mechanical Reasoning	.377	.204	.042	.432	.167	.031							.288	.106	.032	.503	.212	.035
	Space Relations				.194	.064	.029												
	Spelling							.268	.058	.018									
	Language Usage (Constant)		(3.862)			(-0.916)			(0.575)			(2.879)			(3.222)			(-1.183)	
GATB	(Multiple R) (SE)	(.705)	(3.696)		(.748)	(2.760)		(.659)	(2.905)		(.537)	(1.771)		(.575)	(3.019)		(.625)	(3.453)	
	Name Comparison	-.220	-.101	.033	-.189	-.069	.028							-.181	-.145	.074	-.386	-.371	.085
	Computation													.277	.170	.057	.310	.228	.065
	Dimensional Space	.559	.486	.061	.613	.424	.049	.255	.165	.049				.264	.166	.057	.390	.294	.065
	Vocabulary	.346	.309	.067	.185	.131	.058	.520	.344	.051	.542	.196	.029						
	Tool Matching																		
	Arithmetic Reasoning				.169	.242	.133							.291	.174	.058	.237	.170	.066
	Form Matching							-.176	-.078	.032	-.156	-.038	.019						
	Mark Making (Constant)		(8.459)			(1.693)			(8.154)			(5.597)			(5.355)			(3.988)	
Females																			
DAT	(Multiple R) (SE)	(.612)	(2.886)		(.711)	(2.304)		(.717)	(2.570)		(.597)	(1.719)		(.402)	(2.568)				
	Verbal Reasoning	.427	.122	.038	.242	.062	.027	.390	.111	.039	.351	.059	.022	.302	.066	.033			
	Numerical Ability													-.241	-.074	.047	Not Significant		
	Abstract Reasoning																		
	Clerical S & A																		
	Mechanical Reasoning				.311	.106	.038							.309	.897	.040			
	Space Relations				.241	.069	.030	.222	.071	.030									
	Spelling							-.250	-.061	.024									
	Language Usage (Constant)	.216	.074	.045				.330	.113	.044	.277	.056	.027						
			(8.142)			(0.189)			(5.479)			(2.147)			(8.321)				
GATB	(Multiple R) (SE)	(.436)	(3.048)		(.571)	(2.326)		(.544)	(2.522)		(.456)	(1.727)		(.474)	(2.468)		(.327)	(2.179)	
	Name Comparison							-.293	-.076	.026									
	Computation										.190	.079	.041						
	Dimensional Space				.254	.154	.059				.302	.106	.035	.218	.131	.063	.327	.138	.041
	Vocabulary							.629	.344	.055									
	Tool Matching													.327	.287	.092			
	Arithmetic Reasoning	.434	.465	.098	.401	.356	.086												
	Form Matching										-.256	-.059	.021						
	Mark Making (Constant)		(8.911)			(1.168)			(6.753)			(6.305)			(4.243)			(3.524)	

Table 24. Prediction Equations - Twelfth Grade

		General Information			Numerical Operations			Attention to Detail			Word Knowledge			Arithmetic Reasoning			Space Perception			Math Knowledge		
Males		β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE
DAT	(Multiple R) (SE)	(.539)	(2.026)		(.738)	(6.909)		(.552)	(3.305)		(.761)	(3.808)		(.887)	(2.117)		(.808)	(2.273)		(.900)	(2.228)	
	Verbal Reasoning	.464	.092	.028	-.256	-.217	.109				.614	.298	.076							.190	.080	.039
	Numerical Ability				.780	.728	.125							.708	.300	.030				.643	.300	.038
	Abstract Reasoning							.226	.077	.035	-.290	-.146	.055									
	Clerical S & A				.245	.224	.083	.484	.172	.037												
	Mechanical Reasoning	.328	.081	.039																.172	.090	.038
	Space Relations	-.395	-.071	.027										.266	.093	.024	.808	.288	.026			
	Spelling																					
	Language Usage										.343	.185	.073									
	(Constant)		(5.680)			(13.544)			(4.482)			(11.144)			(2.957)			(2.177)			(0.252)	
GATB	(Multiple R) (SE)	(.373)	(2.044)		(.781)	(6.440)		(.624)	(3.739)		(.729)	(4.915)		(.810)	(2.801)		(.728)	(3.684)		(.748)	(3.078)	
	Name Comparison																					
	Computation				.589	1.030	.201	.442	.359	.101				.629	.500	.113						
	Dimensional Space													.179	.110	.056	.689	.484	.065			
	Vocabulary	.373	.101	.034							.554	.481	.127									
	Tool Matching				.251	.489	.224							-.273	-.242	.100						
	Arithmetic Reasoning										.300	.613	.298	.319	.430	.167				.748	1.003	.119
	Form Matching										-.191	-.207	.117									
	Mark Making							.266	.136	.064							.230	.132	.053			
	(Constant)		(8.507)			(-2.700)			(-3.939)			(10.3[illegible])			(3.559)			(-5.940)			(4.055)	
Females																						
DAT	(Multiple R) (SE)	(.439)	(1.952)		(.766)	(6.929)		(.443)	(3.471)		(.841)	(3.873)		(.847)	(2.542)		(.735)	(3.022)		(.891)	(2.335)	
	Verbal Reasoning	.439	.069	.016							.941	.475	.042	.585	.196	.040				.252	.091	.037
	Numerical Ability				.583	.600	.133							.393	.180	.058				.703	.347	.052
	Abstract Reasoning							.395	.167	.066	-.160	-.126	.065									
	Clerical S & A				.235	.187	.065	.216	.063	.034										-.135	-.052	.021
	Mechanical Reasoning																					
	Space Relations							-.340	-.123	.044							.735	.271	.028			
	Spelling				.326	.230	.070							-.179	-.056	.024						
	Language Usage				-.259	-.251	.124															
	(Constant)		(6.053)			(5.780)			(10.519)			(10.563)			(6.814)			(3.040)			(5.754)	
GATB	(Multiple R) (SE)	(.304)	(1.952)		(.663)	(7.159)		(.385)	(3.735)		(.842)	(3.709)		(.859)	(2.296)		(.746)	(2.777)		(.815)	(2.970)	
	Name Comparison																					
	Computation				.667	1.301	.222							.392	.356	.084						
	Dimensional Space				.238	.408	.175				.257	.318	.075	.309	.246	.060	.559	.420	.072	.185	.169	.083
	Vocabulary	.303	.094	.034	-.224	-.321	.173				.678	.704	.090							.228	.171	.076
	Tool Matching							.365	.273	.074												
	Arithmetic Reasoning													.308	.429	.143	.259	.361	.127	.402	.642	.168
	Form Matching																			.174	.147	.068
	Mark Making													-.231	-.119	.032						
	(Constant)		(6.754)			(7.742)			(7.339)			(3.709)			(3.902)			(0.419)			(4.055)	

Table 24 (continued)

		Electronics Information			Mechanical Comprehension			General Science			General Biological Science			Shop Information			Automotive Information		
Males		β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE	β	B	SE
DAT	(Multiple R) (SE)	(.738)	(3.473)		(.818)	(2.936)		(.694)	(2.724)		(.593)	(1.644)		(.657)	(2.752)		(.531)	(4.132)	
	Verbal Reasoning	.267	.114	.059				.694	.220	.028	.593	.102	.017						
	Numerical Ability													-.241	-.080	.039			
	Abstract Reasoning																		
	Clerical S & A	-.274	-.126	.039															
	Mechanical Reasoning	.482	.253	.048	.500	.227	.044							.416	.155	.049	.053	.269	.053
	Space Relations				.389	.129	.032							.421	.114	.038			
	Spelling																		
	Language Usage																		
	(Constant)		(10.116)			(-3.668)			(2.724)			(4.064)			(3.852)			(-2.990)	
GATB	(Multiple R) (SE)	(.607)	(4.265)		(.753)	(2.944)		(.724)	(2.768)		(.680)	(1.587)		(.613)	(3.245)		(.491)	(4.407)	
	Name Comparison																		
	Computation																		
	Dimensional Space	.607	.430	.075	.540	.316	.057	.280	.147	.055				.429	.231	.066	.551	.365	.087
	Vocabulary							.552	.270	.051	.680	.181	.026				-.280	-.173	.081
	Tool Matching																		
	Arithmetic Reasoning				.346	.443	.125												
	Form Matching													.271	.170	.077			
	Mark Making																		
	(Constant)		(12.610)			(1.677)			(4.738)			(3.261)			(5.398)			(8.516)	
Females																			
DAT	(Multiple R) (SE)	(.649)	(3.448)		(.639)	(2.517)		(.627)	(3.107)		(.569)	(1.685)		(.331)	(2.996)		(.311)	(2.514)	
	Verbal Reasoning	.482	.154	.037	.408	.094	.027	.627	.178	.025	.569	.083	.013				.311	.059	.020
	Numerical Ability																		
	Abstract Reasoning																		
	Clerical S & A																		
	Mechanical Reasoning																		
	Space Relations	.219	.082	.043	.290	.078	.031							.331	.087	.028			
	Spelling																		
	Language Usage																		
	(Constant)		(7.788)			(2.724)			(5.336)			(3.428)			(6.934)			(4.785)	
GATB	(Multiple R) (SE)	(.525)	(3.237)		(.616)	(2.710)		(.698)	(2.509)		(.666)	(1.475)		(.524)	(2.206)		(.377)	(2.095)	
	Name Comparison										-.242	-.039	.016						
	Computation													-.290	-.153	.078			
	Dimensional Space	.382	.260	.084	.501	.308	.072	.328	.207	.061	.232	.082	.037	.255	.118	.058	.377	.155	.043
	Vocabulary	.328	.187	.068				.466	.246	.051	.583	.173	.031						
	Tool Matching				-.282	-.167	.060												
	Arithmetic Reasoning				.245	.263	.127							.499	.404	1.37			
	Form Matching	-.274	-.174	.074															
	Mark Making																		
	(Constant)		(11.011)			(4.767)			(1.936)			(3.207)			(6.645)			(3.479)	

grade males for predicting the General Information test of the ASVAB from the tests in the DAT (as shown in Table 22) is as follows:

Predicted General Information Score =

6.068 + .086 (Verbal Reasoning Score)

+ .040 (Abstract Reasoning Score) .

The multiple correlation coefficient for this prediction is .508 and the standard error of estimate for the multiple correlation coefficient is 2.014. The predictive equation for the tenth grade males for the General Information test from tests in the GATB (from Table 22) is

Predicted General Information Score =

6.387 + .149 (Vocabulary Score).

Only one test from the GATB was entered into this equation. Other equations are developed in a similar manner.

Equipercentile Conversion

For each test of each battery, the most highly correlated test was selected and equipercentile conversions were made. The tests most highly correlated with the ASVAB tests are shown in Tables 25 through 27. Tables showing equipercentile conversions were developed for each sample by grade by sex. The method developed by Lindsay (1971) was used to determine the equipercentile conversion tables. For any test in either of the three batteries, an appropriate table was made. By entering the raw score of one test, the equipercentile raw score of the other test can be determined by reading the adjacent raw score. These tables must be used with care, since the tests being compared may measure entirely different traits and the correlation between the two tests may be very low. The standard error of estimate of predicting the raw score from another test may be extremely high. The equipercentile conversion scores are presented in Tables 28 through 69.

IV. SUMMARY AND CONCLUSIONS

Two samples of high school students were tested with Form 5 of the ASVAB. One sample took the ASVAB and the DAT, and the other sample took the ASVAB and the GATB. Univariate statistics were computed for each test of all the batteries. Intercorrelations were computed between the tests in the ASVAB and the DAT and between the tests in the ASVAB and the GATB for grades 10, 11, and 12 by sex. Equations to predict the scores on each test in the ASVAB from the tests in the DAT and GATB were developed. Equipercentile conversion tables were developed for each test in each battery, selecting the pairs of

tests that correlated most highly. Six of the tests in the ASVAB correated highly with at least one of the tests in the other batteries. For the remainder of the tests in ASVAB, the correlations were low to moderate. The results of this study should prove to be useful to high school counselors.

Table 25. Highest Correlations with ASVAB Tests - Tenth Grade

		Males		Females	
General Information	G	Vocabulary	.38	Vocabulary	.29
	D	Verbal Reason	.49	Language Usage	.54
Numerical Operations	G	Computation	.70	Arithmetic Reason	.42
	D	Numerical Ability	.54	Spelling	.42
Attention to Detail	G	Tool Matching	.44	Tool Matching	.38
	D	Clerical S and A	.56	Spelling	.27
Word Knowledge	G	Vocabulary	.80	Vocabulary	.72
	D	Verbal Reason	.74	Verbal Reason	.85
Arithmetic Reasoning	G	Arithmetic Reason	.67	Arithmetic Reason	.62
	D	Numerical Ability	.78	Numerical Ability	.76
Space Perception	G	Dimensional Space	.62	Dimensional Space	.57
	D	Space Relations	.67	Space Relations	.74
Math Knowledge	G	Arithmetic Reason	.64	Arithmetic Reason	.63
	D	Numerical Ability	.79	Numerical Ability	.78
Electronics Information	G	Dimensional Space	.55	Vocabulary	.47
	D	Verbal Reason	.54	Verbal Reason	.66
Mechanical Comprehension	G	Vocabulary	.61	Vocabulary	.43
	D	Mechanical Reason	.61	Abstract Reason	.68
General Science	G	Vocabulary	.61	Vocabulary	.56
	D	Verbal Reason	.69	Verbal Reason	.72
General Biological Science	G	Vocabulary	.52	Vocabulary	.49
	D	Verbal Reason	.62	Verbal Reason	.61
Shop Information	G	Vocabulary	.39	Vocabulary	.43
	D	Verbal Reason	.47	Verbal Reason	.53
Automotive Information	G	Dimensional Space	.42	Dimensional Space	.31
	D	Space Relations	.41	Spelling	.33

Table 26. Highest Correlations with ASVAB Tests - Eleventh Grade

		Males		Females	
General Information	G	Vocabulary	.47	Vocabulary	.20
	D	Verbal Reason	.56	Verbal Reason	.47
Numerical Operations	G	Computation	.70	Computation	.63
	D	Numerical Ability	.58	Clerical S and A	.59
Attention to Detail	G	Tool Matching	.49	Tool Matching	.44
	D	Clerical S and A	.48	Clerical S and A	.40
Word Knowledge	G	Vocabulary	.73	Vocabulary	.69
	D	Verbal Reason	.81	Verbal Reason	.84
Arithmetic Reasoning	G	Arithmetic Reason	.77	Arithmetic Reason	.68
	D	Numerical Ability	.83	Numerical Ability	.76
Space Perception	G	Dimensional Space	.71	Dimensional Space	.57
	D	Space Relations	.75	Space Relations	.78
Math Knowledge	G	Arithmetic Reason	.72	Arithmetic Reason	.71
	D	Numerical Ability	.86	Numerical Ability	.86
Electronics Information	G	Dimensional Space	.62	Arithmetic Reason	.44
	D	Verbal Reason	.61	Verbal Reason	.60
Mechanical Comprehension	G	Dimensional Space	.70	Arithmetic Reason	.53
	D	Mechanical Reason	.70	Mechanical Reason	.66
General Science	G	Vocabulary	.59	Vocabulary	.48
	D	Verbal Reason	.72	Verbal Reason	.65
General Biological Science	G	Vocabulary	.51	Vocabulary	.35
	D	Verbal Reason	.64	Verbal Reason	.57
Shop Information	G	Dimensional Space	.47	Arithmetic Reason	.43
	D	Verbal Reason	.51	Mechanical Reason	.35
Automotive Information	G	Dimensional Space	.47	Vocabulary	.33
	D	Mechanical Reason	.61	Space Relations	.13

Table 27. Highest Correlations with ASVAB Tests - Twelfth Grade

		Males		Females	
General Information	G	Vocabulary	.37	Vocabulary	.30
	D	Verbal Reason	.45	Verbal Reason	.44
Numerical Operations	G	Computation	.76	Computation	.62
	D	Numerical Ability	.66	Numerical Ability	.67
Attention to Detail	G	Computation	.58	Tool Matching	.39
	D	Clerical S and A	.50	Clerical S and A	.32
Word Knowledge	G	Vocabulary	.69	Vocabulary	.81
	D	Verbal Reason	.69	Verbal Reason	.83
Arithmetic Reasoning	G	Arithmetic Reason	.72	Arithmetic Reason	.77
	D	Numerical Ability	.86	Verbal Reason	.82
Space Perception	G	Dimensional Space	.69	Dimensional Space	.72
	D	Abstract Reason	.60	Mechanical Reason	.55
Math Knowledge	G	Arithmetic Reason	.75	Arithmetic Reason	.75
	D	Numerical Ability	.87	Numerical Ability	.87
Electronics Information	G	Dimensional Space	.61	Dimensional Space	.42
	D	Mechanical Reason	.66	Verbal Reason	.63
Mechanical Comprehension	G	Dimensional Space	.68	Dimensional Space	.54
	D	Mechanical Reason	.77	Verbal Reason	.60
General Science	G	Vocabulary	.68	Vocabulary	.64
	D	Verbal Reason	.69	Verbal Reason	.63
General Biological Science	G	Vocabulary	.68	Vocabulary	.62
	D	Verbal Reason	.59	Verbal Reason	.57
Shop Information	G	Dimensional Space	.57	Arithmetic Reason	.44
	D	Mechanical Reason	.59	Space Relations	.33
Automotive Information	G	Dimensional Space	.42	Dimensional Space	.38
	D	Mechanical Reason	.53	Mechanical Reason	.34

Table 28. Raw Scores for ASVAB-General Information and Equipercentile Raw Scores for GATB Tests

ASVAB Genl Info Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Vocab	Vocab	Vocab	Vocab	Vocab	Vocab
15	36-60	44-60	34-60	37-60	43-60	40-60
14	32-35	40-43	31-33	35-36	37-42	37-39
13	29-31	35-39	27-30	33-34	31-36	34-36
12	26-28	31-34	24-26	30-32	26-30	30-33
11	23-25	27-30	21-23	28-29	22-25	27-29
10	20-22	24-26	19-20	25-27	18-21	24-26
9	17-19	20-23	16-18	22-24	14-17	21-23
8	15-16	18-19	14-15	20-21	11-13	17-20
7	12-14	15-17	11-13	17-19	9-10	14-16
6	10-11	12-14	9-10	14-16	7- 8	11-13
5	8- 9	10-11	7- 8	11-13	6	7-10
4	6- 7	8- 9	6	7-10	5	4- 6
3	5	7	4- 5	4- 6	5	3
2	3- 4	6	2- 3	1- 3	5	2
1	2	5	1	0	4	1
0	1	0- 4	0	0	0- 3	0

Table 29. Raw Scores for ASVAB-General Information and Equipercentile Raw Scores for DAT Tests

ASVAB Genl Info Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Verbal Reason	Lang Usage	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason
15	50	60	50	50	50	50
14	47-49	60	50	50	48-49	50
13	41-46	60	44-49	50	44-47	50
12	35-40	55-59	38-43	47-49	40-43	50
11	30-34	50-54	33-37	43-46	35-39	45-49
10	26-29	44-49	28-32	38-42	31-34	40-44
9	21-25	39-43	23-27	33-37	26-30	34-39
8	17-20	34-38	19-22	28-32	20-25	28-33
7	13-16	29-33	14-18	22-27	15-19	22-27
6	10-12	24-28	11-13	16-21	9-14	14-21
5	7- 9	19-23	7-10	10-15	3- 8	7-13
4	5- 6	14-18	4- 6	4- 9	1- 2	1- 6
3	3- 4	10-13	1- 3	1- 3	0	0
2	1- 2	5- 9	0	0	0	0
1	0	1- 4	0	0	0	0
0	0	0	0	0	0	0

Table 30. Raw Scores for ASVAB-Numerical Operations and Equipercentile Raw Scores for GATB Tests

ASVAB Numer Oper Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Comput	Arith Reason	Comput	Comput	Vocab	Comput
50	30-50	14-25	28-50	31-50	31-60	30-50
49	29	13	27	30	30	29
48	29	13	27	30	29	28
47	28	12	26	29	29	27
46	27	12	26	28	28	27
45	27	12	26	27	27	26
44	26	11	25	27	27	25
43	26	11	25	26	26	25
42	25	11	24	25	25	24
41	25	10	24	25	25	23
40	24	10	23	24	24	23
39	24	10	23	24	23	22
38	23	9	22	23	23	22
37	23	9	22	22	22	21
36	22	9	22	22	22	21
35	22	8	21	21	21	20
34	21	8	21	21	20	20
33	21	8	20	20	20	19
32	20	8	20	20	19	19
31	20	7	19	19	19	18
30	19	7	19	19	18	18
29	19	7	18	18	18	17
28	18	6	18	18	17	17
27	18	6	17	17	17	16
26	17	6	17	17	16	16

Table 30 (continued)

ASVAB Numer Oper Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Comput	Arith Reason	Comput	Comput	Vocab	Comput
25	17	6	16	16	16	16
24	16	5	16	16	15	15
23	16	5	15	15	15	15
22	16	5	15	15	14	15
21	15	4	14	14	14	14
20	15	4	14	14	13	14
19	14	4	13	14	13	14
18	14	4	13	13	12	13
17	13	3	12	13	12	13
16	13	3	12	13	12	13
15	12	3	11	12	11	12
14	12	3	10	12	11	12
13	12	2	10	12	10	12
12	11	2	9	11	10	12
11	11	2	9	11	10	11
10	10	2	8	11	9	11
9	10	2	8	10	9	11
8	9	1	7	10	8	11
7	9	1	6	10	8	11
6	9	1	6	10	8	10
5	8	1	5	10	7	10
4	8	1	5	9	7	10
3	7	0	4	9	7	10
2	7	0	3	9	6	10
1	7	0	3	9	6	10
0	0- 6	0	0- 2	0- 8	0- 6	0-10

Table 31. Raw Scores for ASVAB-Numerical Operations and Equipercentile Raw Scores for DAT Tests

ASVAB Numer Oper Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Ability	Spell	Numer Ability	Cleric Speed	Numer Ability	Numer Ability
50	37-40	95-100	37-40	70-100	40	34-40
49	36	92-94	36	68-69	39	33
48	35	90-9[illegible]	35	66-67	38	32
47	34	88-[illegible]	34	64-65	36-37	31
46	34	86-87	33	62-63	35	30
45	33	84-85	32	61	34	28-29
44	32	82-83	31	59-60	33	27
43	31	80-81	30	57-58	32	26
42	30	78-79	29	56	31	25
41	30	76-77	28	54-55	30	24
40	29	74-75	27	53	29	23
39	28	72-73	26	51-52	28	22
38	27	70-71	25	50	27	21
37	26	67-69	24	49	26	20
36	25	65-66	23	47-48	24-25	19
35	24	63-64	22	46	23	18
34	24	60-62	21	45	22	17
33	23	59-60	20	44	21	16
32	22	57-58	19	43	20	15
31	21	55-56	19	42	19	14
30	20	53-54	18	41	18	13
29	19	51-52	17	40	17	13
28	18	49-50	16	39	16	12
27	17	47-48	15	38	15	11
26	16	45-46	14	37	14	10

Table 31 (continued)

ASVAB Numer Oper Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Ability	Spell	Numer Ability	Cleric Speed	Numer Ability	Numer Ability
25	15	43-44	14	36	13	10
24	14	41-42	13	36	12	9
23	13	39-40	12	35	11	8
22	12	36-38	11	34	10	7
21	11	34-35	11	34	9	7
20	10	32-33	10	33	8	6
19	9	30-31	9	33	7	6
18	8	28-29	8	32	6	5
17	7	26-27	8	32	5	5
16	5- 6	24-25	7	32	4	4
15	4	22-23	6	31	3	4
14	3	20-21	6	31	2	3
13	2	18-19	5	31	2	3
12	1	16-17	4	31	1	2
11	0	14-15	4	31	0	2
10	0	12-13	3	31	0	2
9	0	10-11	3	31	0	1
8	0	8- 9	2	31	0	1
7	0	6- 7	2	31	0	1
6	0	4- 5	1	31	0	0
5	0	2- 3	1	31	0	0
4	0	1	0	31	0	0
3	0	0	0	31	0	0
2	0	0	0	31	0	0
1	0	0	0	31	0	0
0	0	0	0	0-31	0	0

Table 32. Raw Scores for ASVAB-Attention to Detail and Equipercentile Raw Scores for GATB Tests

ASVAB Attn to Detail Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Tool Match	Tool Match	Tool Match	Tool Match	Comput	Tool Match
30	45-49	45-49	40-49	43-49	45-50	49
29	44	44	39	42	43-44	48
28	44	44	39	42	42	47
27	43	43	39	42	40-41	46
26	43	43	39	41	39	44-45
25	43	42	39	41	38	43
24	42	41	39	40	36-37	42
23	41	40	39	40	35	41
22	41	39	38	39	33-34	40
21	40	39	38	38	32	38-39
20	39	38	37	37	31	37
19	38	37	36	36	29-30	36
18	37	35-36	35	35	28	35
17	36	34	34	34	27	33-34
16	34-35	33	33	33	25-26	32
15	33	32	32	32	24	31
14	31-32	30-31	30-31	30-31	23	29-30
13	30	29	29	29	22	28
12	28-29	28	27-28	27-28	20-21	26-27
11	27	26-27	26	26	19	25
10	25-26	25	24-25	24-25	18	23-24
9	23-24	23-24	22-23	23	17	22
8	21-22	21-22	20-21	21-22	16	20-21
7	19-20	20	17-19	19-20	15	19
6	17-18	18-19	15-16	17-18	13-14	17-18
5	15-16	16-17	13-14	15-16	12	16
4	13-14	14-15	10-12	13-14	11	14-15
3	10-12	13	8- 9	11-12	10	12-13
2	8- 9	11-12	5- 7	9-10	9	11
1	6- 7	9-10	2- 4	7- 8	8	9-10
0	0- 5	0- 8	0- 1	0- 6	0- 7	0- 8

Table 33. Raw Scores for ASVAB-Attention to Detail and Equipercentile Raw Scores for DAT Tests

ASVAB Attn to Detail Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Cleric Speed	Spell	Cleric Speed	Cleric Speed	Cleric Speed	Cleric Speed
30	69-100	99-100	92-100	91-100	83-100	93-100
29	68	98	89-91	88-90	81-82	90-92
28	66-67	98	86-88	85-87	79-80	87-89
27	65	98	84-85	82-84	77-78	84-86
26	64	97	80-82	79-81	75-76	81-83
25	62-63	96	77-79	76-78	72-74	78-80
24	61	95	73-76	73-75	70-71	75-77
23	59-60	93-94	70-72	70-72	68-69	72-74
22	57-58	91-92	67-69	67-69	65-67	69-71
21	56	89-90	65-66	64-66	62-64	67-68
20	54-55	86-88	62-64	62-63	60-61	64-66
19	52-53	83-85	59-61	59-61	57-59	61-63
18	50-51	80-82	56-58	56-58	55-56	58-60
17	48-49	76-79	53-55	53-55	52-54	55-57
16	46-47	73-75	50-52	51-52	49-51	52-54
15	44-45	68-72	48-49	48-50	46-48	49-51
14	42-43	64-67	45-47	46-47	43-45	46-48
13	40-41	59-63	42-44	43-45	40-42	44-45
12	38-39	54-58	40-41	40-42	37-39	41-43
11	36-37	49-53	37-39	38-39	34-36	38-40
10	34-35	43-48	35-36	35-37	31-33	35-37
9	32-33	37-42	32-34	33-34	28-30	32-34
8	29-31	31-36	30-31	31-32	24-27	30-31
7	27-28	25-30	27-29	28-30	21-23	27-29
6	25-26	18-24	25-26	26-27	18-20	24-26
5	22-24	10-17	23-24	24-25	14-17	22-23
4	20-21	3- 9	20-22	21-23	11-13	19-21
3	17-19	1- 2	18-19	19-20	7-10	16-18
2	15-16	0	16-17	17-18	3- 6	13-15
1	12-14	0	14-15	15-16	1- 2	11-12
0	0-11	0	0-13	0-14	0	0-10

Table 34. Raw Scores for ASVAB-Word Knowledge and Equipercentile Raw Scores for GATB Tests

ASVAB Word Know Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Vocab	Vocab	Vocab	Vocab	Vocab	Vocab
30	32-60	33-60	30-60	30-60	34-60	32-60
29	31	32	29	29	32-33	30-31
28	29-30	30-31	28	29	30-31	29
27	28	29	26-27	28	28-29	28
26	26-27	28	25	27	26-27	27
25	25	27	24	26	24-25	25
24	24	26	23	25	23	24
23	22-23	25	22	24	21-22	23
22	21	23-24	20-21	23	20	21-22
21	20	22	19	22	18-19	20
20	19	21	18	21	17	19
19	18	20	17	20	16	18
18	17	19	16	19	15	17
17	16	18	15	18	14	16
16	15	17	14	17	13	15
15	14	16	13	16	12	14
14	13	15	12	15	11	14
13	12	14	11	14	10	13
12	11	13	11	13	9	12
11	10	12	10	12	9	12
10	10	11	9	10-11	8	11
9	9	10	8	9	8	10
8	8	9	7	8	7	10
7	8	8	6	7	7	9
6	7	7	6	6	7	9
5	7	6	5	4- 5	6	9
4	6	5	4	3	6	8
3	6	4	4	2	6	8
2	5	4	3	1	6	8
1	5	3	2	0	6	7
0	0- 5	0- 2	0- 2	0	0- 6	0- 7

Table 35. Raw Scores for ASVAB-Word Knowledge and Equipercentile Raw Scores for DAT Tests

ASVAB Word Know Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason
30	47-50	50	50	50	49-50	50
29	45-46	49-50	48-49	48-49	47-48	48-49
28	43-44	47-48	45-47	46-47	45-46	45-47
27	40-42	44-46	43-44	44-45	42-43	43-44
26	38-39	42-43	40-42	42-43	40-41	41-42
25	36-37	40-41	38-39	40-41	37-39	38-40
24	34-35	38-39	36-37	37-39	35-36	36-37
23	32-33	36-37	34-35	35-36	33-34	34-35
22	30-31	34-35	31-33	33-34	31-32	32-33
21	28-29	31-33	29-30	31-32	29-30	30-31
20	26-27	29-30	27-28	29-30	27-28	28-29
19	24-25	27-28	25-26	27-28	25-26	26-27
18	22-23	25-26	23-24	25-26	23-24	24-25
17	21	23-24	22	23-24	21-22	22-23
16	19-20	21-22	20-21	21-22	19-20	20-21
15	18	19-20	18-19	19-20	17-18	18-19
14	16-17	18	16-17	17-18	15-16	16-17
13	15	16-17	15	15-16	14	15
12	13-14	14-15	13-14	13-14	12-13	13-14
11	12	12-13	12	11-12	10-11	12
10	11	10-11	10-11	9-10	9	10-11
9	10	9	9	7- 8	7- 8	9
8	9	7- 8	8	5- 6	5- 6	7- 8
7	8	5- 6	6- 7	3- 4	4	6
6	7	3- 4	5	1- 2	2- 3	5
5	6	2	4	0	1	3- 4
4	5	1	3	0	0	2
3	4	0	2	0	0	1
2	3	0	1	0	0	0
1	3	0	0	0	0	0
0	0- 2	0	0	0	0	0

Table 36. Raw Scores for ASVAB-Arithmetic Reasoning and Equipercential Raw Scores for GATB Tests

ASVAB Arith Reason Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Arith Reason	Arith Reason	Arith Reason	Arith Reason	Arith Reason	Arith Reason
20	17-25	15-25	16-25	16-25	17-25	16-25
19	16	14	15	15	16	15
18	15	14	15	15	15	15
17	14	14	14	14	13-14	14
16	13	13	13	13	12	13
15	13	13	12	13	11	12
14	12	12	11	12	10	12
13	11	11	10	11	10	11
12	10	11	10	10	9	10
11	9	10	9	10	8	9
10	8	9	8	9	7	9
9	8	8	8	8	7	8
8	7	8	7	7	6	7
7	6	7	6	6	5	6
6	5	6	6	5	5	6
5	4	5	5	4	5	5
4	3	4	5	3	4	4
3	2	3	4	2	4	4
2	1	2	4	1	4	3
1	0	1	3	0	4	2
0	0	0	0- 3	0	0- 4	0- 1

Table 37. Raw Scores for ASVAB-Arithmetic Reasoning and Equipercentile Raw Scores for DAT Tests

ASVAB Arith Reason Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Ability	Numer Ability	Numer Ability	Numer Ability	Numer Ability	Verbal Reason
20	38-40	38-40	39-40	39-40	40	50
19	36-37	37	37-38	38	38-39	48-49
18	34-35	36	34-36	36-37	35-37	45-47
17	32-33	34-35	32-33	35	32-34	42-44
16	30-31	33	29-31	33-34	29-31	39-41
15	28-29	31-32	27-28	31-32	27-28	36-38
14	27	30	24-26	29-30	24-26	33-35
13	24-26	28-29	22-23	27-28	22-23	30-32
12	22-23	26-27	20-21	24-26	20-21	27-29
11	20-21	24-25	18-19	22-23	17-19	24-26
10	18-19	22-23	16-17	20-21	15-16	21-23
9	16-17	19-21	14-15	18-19	13-14	18-20
8	13-15	17-18	12-13	15-16	11-12	16-17
7	11-12	15-16	10-11	12-14	9-10	13-15
6	9-10	12-14	8- 9	9-11	7- 8	10-12
5	6- 8	9-11	7	7- 8	6	7- 9
4	4- 5	6- 8	5- 6	4- 6	4- 5	5- 6
3	1- 3	4- 5	3- 4	1- 3	2- 3	2- 4
2	0	1- 3	2	0	1	1
1	0	0	1	0	0	0
0	0	0	0	0	0	0

Table 38. Raw Scores for ASVAB-Space Perception and Equipercentile Raw Scores for GATB Tests

ASVAB Space Percep Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Dimen Space	Dimen Space	Dimen Space	Dimen Space	Dimen Space	Dimen Space
20	31-40	29-40	31-40	27-40	32-40	28-40
19	30	28	30	26	30-31	27
18	28-29	27	28-29	25	28-29	26
17	27	26	27	24	26-27	25
16	26	25	25-26	23	24-25	24
15	25	24	24	22	22-23	22-23
14	24	23	23	21	21	21
13	22-23	22	21-22	20	19-20	20
12	21	20-21	20	18-19	18	19
11	20	19	19	17	16-17	17-18
10	18-19	18	17-18	16	15	16
9	17	16-17	16	15	14	15
8	15-16	15	15	14	13	13-14
7	13-14	13-14	14	13	12	12
6	12	11-12	13	12	12	10-11
5	10-11	10	11-12	10-11	11	9
4	8- 9	8- 9	10	9	10	7- 8
3	6- 7	6- 7	9	8	10	6
2	5	5	8	7	10	4- 5
1	3- 4	3- 4	7	6	9	3
0	0- 2	0- 2	0- 6	0- 5	0- 9	0- 2

Table 39. Raw Scores for ASVAB-Space Perception and Equipercentile Raw Scores for DAT Tests

ASVAB Space Percep Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Space Relat	Space Relat	Space Relat	Space Relat	Abstr Reason	Mechan Reason
20	57-60	59-60	60	54-60	46-50	59-70
19	54-56	56-58	56-59	52-53	45	57-58
18	52-53	53-55	52-55	49-51	45	55-56
17	49-51	50-52	49-51	46-48	45	53-54
16	46-48	47-49	45-48	44-45	45	51-52
15	43-45	45-46	42-44	41-43	44	48-50
14	41-42	42-44	39-41	39-40	42-43	46-47
13	38-40	39-41	36-38	36-38	40-41	44-45
12	35-37	36-38	33-35	33-35	38-39	41-43
11	32-34	33-35	31-32	31-32	35-37	39-40
10	30-31	30-32	28-29	28-30	32-34	36-38
9	27-29	27-29	25-27	26-27	29-31	34-35
8	24-26	23-26	23-24	23-25	25-28	31-33
7	21-23	20-22	21-22	21-22	21-24	28-30
6	18-20	17-19	19-20	18-20	17-20	26-27
5	15-17	14-16	16-18	16-17	12-16	23-25
4	13-14	11-13	15	13-15	7-11	20-22
3	10-12	8-10	13-14	11-12	1- 6	17-19
2	7- 9	5- 7	11-12	8-10	0	14-16
1	4- 6	2- 4	10	6- 7	0	11-13
0	0- 3	0- 1	0- 9	0- 5	0	0-10

Table 40. Raw Scores for ASVAB-Math Knowledge and Equipercentile Raw Scores for GATB Tests

ASVAB Math Know Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Arith Reason	Arith Reason	Arith Reason	Arith Reason	Arith Reason	Arith Reason
20	16-25	15-25	15-25	16-25	16-25	16-25
19	15	14	14	15	15	15
18	14	13	13	14	13-14	14
17	13	12	12	13	12	13
16	12	12	11	12	11	12
15	11	11	11	11	10	11
14	11	10	10	10	9	10
13	10	10	9	10	9	9
12	9	9	8	9	8	9
11	8	8	8	8	7	8
10	7	8	7	7	7	8
9	6	7	7	7	6	7
8	6	6	6	6	6	6
7	5	6	6	6	5	6
6	4	5	6	5	5	6
5	3	5	6	5	5	5
4	2	4	6	4	5	5
3	2	4	6	4	5	5
2	1	3	6	4	5	4
1	0	2	6	4	5	4
0	0	0- 2	0- 6	0- 3	0- 5	0- 4

Table 41. Raw Scores for ASVAB-Math Knowledge and Equipercentile Raw Scores for DAT Tests

ASVAB Math Know Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Ability	Numer Ability	Numer Ability	Numer Ability	Numer Ability	Numer Ability
20	37-40	37-40	36-40	37-40	38-40	36-40
19	34-36	34-36	33-35	35-36	35-37	34-35
18	32-33	32-33	31-32	32-34	32-34	31-33
17	30-31	29-31	29-30	29-31	29-31	29-30
16	28-29	27-28	26-28	27-28	27-28	27-28
15	25-27	25-26	24-25	25-26	24-26	25-26
14	23-24	23-24	22-23	23-24	22-23	23-24
13	21-22	21-22	20-21	20-22	20-21	21-22
12	19-20	19-20	18-19	19	17-19	19-20
11	18	18	16-17	17-18	16	17-18
10	16-17	16-17	14-15	15-16	14-15	15-16
9	14-15	15	13	13-14	12-13	13-14
8	13	14	11-12	12	11	12
7	11-12	13	10	10-11	9-10	10-11
6	10	12	8- 9	9	8	8- 9
5	8- 9	11	7	8	7	7
4	7	10	5- 6	7	6	5- 6
3	6	9	4	6	5	4
2	4- 5	8	3	5	4	3
1	3	8	2	4	4	1- 2
0	0- 2	0- 7	0- 1	0- 3	0- 3	0

Table 42. Raw Scores for ASVAB-Electronics Information and Equipercentile Raw Scores for GATB Tests

ASVAB Elect Inform Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Dimen Space	Vocab	Dimen Space	Arith Reason	Dimen Space	Dimen Space
30	34-40	49-60	33-40	20-25	36-40	40
29	33	46-48	32	19	33-35	40
28	31-32	44-45	30131	19	31-32	40
27	30	42-43	29	18	29-30	38-39
26	28-29	39-41	28	18	27-28	36-37
25	27	37-38	26-27	18	25-26	35
24	26	35-36	25	17	24	33-34
23	24-25	33-34	24	17	22-23	31-32
22	23	31-32	22-23	16	20-21	29-30
21	22	29-30	21	16	19	28
20	20-21	27-28	20	15	17-18	26-27
19	19	25-26	19	14	16	24-25
18	18	23-24	18	14	15	23
17	17	22	17	13	14	21-22
16	16	20-21	15-16	12	12-13	19-20
15	15	18-19	14	11	11	18
14	14	17	13	10	10	17
13	13	15-16	12	10	10	15-16
12	12	13-14	11	9	9	14
11	11	12	10	7- 8	8	12-13
10	10	11	9	6	7	11
9	9	9-10	9	5	7	10
8	8	8	8	4	6	8- 9
7	7	7	7	3	6	7
6	6	5- 6	6	2	6	6
5	6	4	5	1	5	5
4	5	3	4	0	5	4
3	4	2	4	0	5	3
2	3	1	3	0	5	2
1	3	0	2	0	5	1
0	0- 2	0	0- 2	0	0- 5	0

Table 43. Raw Scores for ASVAB-Electronics Information and Equipercentile Raw Scores for DAT Tests

ASVAB Elect Inform Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason	Mechan Reason	Verbal Reason
30	50	50	50	50	66-70	50
29	49	49	49	50	65	50
28	46-48	46-48	46-48	50	63-64	50
27	43-45	43-45	43-45	50	61-62	50
26	40-42	40-42	41-42	50	60	50
25	37-39	37-39	38-40	50	58-59	50
24	35-36	35-36	36-37	50	56-57	50
23	32-34	32-34	33-35	50	55	49
22	30-31	30-31	31-32	50	53-54	47-48
21	28-29	28-29	29-30	50	51-52	45-46
20	25-27	25-27	27-28	49	49-50	43-44
19	23-24	23-24	25-26	45-48	47-48	41-42
18	21-22	21-22	23-24	41-44	45-46	38-40
17	20	20	21-22	37-40	43-44	35-37
16	18-19	18-19	19-20	33-36	41-42	32-34
15	16-17	16-17	17-18	29-32	39-40	29-31
14	15	15	16	25-28	37-38	26-28
13	13-14	13-14	14-15	22-24	35-36	22-25
12	12	12	13	19-21	33-34	19-21
11	11	11	11-12	15-18	31-32	15-18
10	10	10	10	12-14	28-30	11-14
9	9	9	9	10-11	26-27	6-10
8	8	8	8	7- 9	24-25	2- 5
7	7	7	7	4- 6	22-23	1
6	6	6	6	1- 3	19-21	0
5	6	6	5	0	17-18	0
4	5	5	4	0	14-16	0
3	5	5	3	0	12-13	0
2	4	5	2	0	9-11	0
1	4	4	2	0	7- 8	0
0	0- 4	0- 4	0- 1	0	0- 6	0

Table 44. Raw Scores for ASVAB-Mechanical Comprehension and Equipercentile Raw Scores for GATB Tests

ASVAB Mechan Compr Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Vocab	Vocab	Dimen Space	Arith Reason	Dimen Space	Dimen Space
20	34-60	39-60	32-40	19-25	35-40	32-40
19	32-33	37-38	31	18	32-34	31
18	30-31	36	29-30	18	30-31	31
17	28-29	34-35	27-28	18	27-29	30
16	26-27	32-33	25-26	17	25-26	29
15	24-25	30-31	24	17	23-24	28
14	22-23	29	22-23	16	21-22	27
13	21	27-28	21	15	19-20	26
12	19-20	25-26	19-20	15	17-18	24-25
11	18	23-24	18	14	16	23
10	16-17	21-22	16-17	13	14-15	21-22
9	14-15	19-20	15	12	13	20
8	13	18	14	11	12	18-19
7	12	16-17	12-13	10	11	17
6	10-11	14-15	11	9	10	15-16
5	9	12-13	10	7- 8	9	13-14
4	8	10-11	9	6	8	11-12
3	6- 7	8- 9	7- 8	4- 5	8	9-10
2	5	6- 7	6	3	7	7- 8
1	4	4- 5	5	1- 2	7	5- 7
0	0- 3	0- 3	0- 4	0	0- 7	0- 4

Table 45. Raw Scores for ASVAB-Mechanical Comprehension and Equipercentile R. w Scores for DAT Tests

ASVAB Mechan Compr Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Mechan Reason	Abstr Reason	Mechan Reason	Mechan Reason	Mechan Reason	Verbal Reason
20	65-70	39-50	64-70	70	65-70	50
19	64	37-38	63	67-69	63-64	50
18	63	36	62	65-66	61-62	50
17	61-62	34-35	61	63-64	60	50
16	60	32-33	60	61-62	58-59	50
15	58-59	30-31	58-59	58-60	56-57	50
14	56-57	29	56-57	56-57	54-55	50
13	54-55	27-28	53-55	53-55	52-53	47-49
12	52-53	25-26	51-52	50-52	49-51	45-46
11	50-51	23-24	48-50	48-49	47-48	42-44
10	48-49	21-22	45-47	45-47	45-46	38-41
9	45-47	19-20	42-44	42-44	42-44	34-37
8	42-44	18	38-41	39-41	40-41	30-33
7	40-41	16-17	34-37	36-38	38-39	25-29
6	37-39	14-15	30-33	33-35	35-37	20-24
5	33-36	12-13	26-29	30-32	32-34	14-19
4	30-32	10-11	21-25	26-29	30-31	8-13
3	27-29	8- 9	16-20	23-25	27-29	1- 7
2	23-26	6- 7	11-15	20-22	24-26	0
1	19-22	4- 5	6-10	16-19	21-23	0
0	0-18	0- 3	0- 5	0-15	0-20	0

Table 46. Raw Scores for ASVAB-General Science and Equipercentile Raw Scores for GATB Tests

ASVAB Gener Science Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Vocab	Vocab	Vocab	Vocab	Vocab	Vocab
20	32-60	39-60	31-60	41-60	38-60	35-60
19	30-31	37-38	29-30	39-40	35-37	34
18	28-29	34-35	28	36-38	32-34	32-33
17	26-27	32-33	26-27	34-35	29-31	31
16	25	30-31	24-25	32-33	26-28	30
15	23-24	28-29	23	29-31	24-25	28-29
14	21-22	26-27	21-22	27-28	21-23	27
13	19-20	24-25	19-20	25-26	19-20	25-26
12	18	22-23	18	23-24	17-18	23-24
11	16-17	20-21	16-17	21-22	15-16	21-22
10	15	18-19	15	19-20	14	19-20
9	13-14	16-17	13-14	18	12-13	17-18
8	12	14-15	12	16-17	11	15-16
7	10-11	12-13	10-11	14-15	9-10	13-14
6	9	10-11	9	13	8	11-12
5	8	8- 9	8	11-12	7	8-10
4	7	6- 7	6- 7	9-10	6	6- 7
3	6	4- 5	5	8	5	3- 5
2	5	2- 3	4	7	5	1- 2
1	4	1	3	5- 6	4	0
0	0- 3	0	0- 2	0- 4	0- 4	0

Table 47. Raw Scores for ASVAB-General Science and Equipercentile Raw Scores for DAT Tests

ASVAB Gener Science Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason
20	50	50	50	50	50	50
19	46-49	50	48-49	50	50	50
18	43-45	50	45-47	50	46-49	50
17	40-42	49	41-44	48-49	43-45	49
16	37-39	46-48	38-40	46-47	39-42	47-48
15	34-36	43-45	35-37	44-45	36-38	44-46
14	31-33	40-42	32-34	41-43	33-35	41-43
13	28-30	37-39	29-31	38-40	30-32	38-40
12	25-27	34-36	26-28	35-37	26-29	34-37
11	22-24	31-33	24-25	32-34	23-25	31-33
10	20-21	27-30	21-23	29-31	21-22	27-30
9	17-19	24-26	18-20	25-28	18-20	23-26
8	15-16	20-23	16-17	21-24	15-17	18-22
7	13-14	17-19	14-15	17-20	12-14	14-17
6	10-12	13-16	11-13	12-16	10-11	9-13
5	8- 9	9-12	9-10	8-11	7- 9	4- 8
4	6- 7	6- 8	7- 8	3- 7	5- 6	1- 3
3	4- 5	2- 5	5- 6	1- 2	2- 4	0
2	3	1	3- 4	0	1	0
1	1- 2	0	1- 2	0	0	0
0	0	0	0	0	0	0

Table 48. Raw Scores for ASVAB-General Biological Science and Equipercentile Raw Scores for GATB Tests

ASVAB Gener Biolog Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Vocab	Vocab	Vocab	Vocab	Vocab	Vocab
10	31-60	32-60	29-60	33-60	36-60	34-60
9	27-30	28-31	25-28	30-32	29-35	30-33
8	23-26	25-27	22-24	26-29	24-28	27-29
7	20-22	22-24	19-21	23-25	19-23	23-26
6	17-19	18-21	16-18	20-22	15-18	20-22
5	14-16	15-17	14-15	17-19	12-14	16-19
4	11-13	13-14	11-13	14-16	10-11	13-15
3	9-10	10-12	9-10	11-13	9	10-12
2	7- 8	8- 9	7- 8	9-10	8	7- 9
1	5- 6	6- 7	5- 6	6- 8	7	4- 6
0	0- 4	0- 5	0- 4	0- 5	0- 8	0- 3

Table 49. Raw Scores for ASVAB-General Biological Science and Equipercentile Raw Scores for DAT Tests

ASVAB Gener Biolog Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason	Verbal Reason
10	48-50	50	50	50	49-50	50
9	41-47	47-49	44-49	46-49	41-48	48-49
8	34-40	41-46	37-43	40-45	33-40	42-47
7	28-33	35-40	30-36	34-39	27-32	35-41
6	23-27	29-34	24-29	28-33	21-26	29-34
5	18-22	23-28	19-23	22-27	17-20	21-28
4	14-17	17-22	14-18	16-21	13-16	14-20
3	10-13	10-16	10-13	11-15	10-12	6-13
2	7- 9	4- 9	7- 9	5-10	7- 9	1- 5
1	5- 6	1- 3	3- 6	1- 4	6	0
0	0- 4	0	0- 2	0	0- 5	0

Table 50. Raw Scores for ASVAB-Shop Information and Equipercentile Raw Scores for GATB Tests

ASVAB Shop Inform Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Vocab	Vocab	Dimen Space	Arith Reason	Dimen Space	Arith Reason
20	34-60	43-60	32-40	19-25	33-40	25
19	31-33	41-42	30-31	18	30-32	25
18	28-30	38-40	28-29	17	27-29	25
17	26-27	36-37	26-27	17	24-26	23-24
16	23-25	33-35	24-25	16	22-23	21-22
15	21-22	31-32	22-23	16	19-21	19-20
14	19-20	29-30	20-21	15	17-18	17-18
13	17-18	27-28	18-19	14	15-16	15-16
12	15-16	24-26	16-17	13	14	14
11	14	22-23	15	12	12-13	12-13
10	12-13	20-21	14	11	11	11
9	11	18-19	12-13	10	10	9-10
8	10	16-17	11	9	9	8
7	9	14-15	10	7- 8	8	7
6	8	12-13	9	6	7	6
5	7	10-11	8	5	7	5
4	6	8- 9	7	3- 4	7	4
3	5	6- 7	6	2	7	3
2	5	4- 5	6	1	7	2
1	4	2- 3	5	0	7	1
0	0- 4	0- 1	0- 5	0	0- 7	1

Table 51. Raw Scores for ASVAB-Shop Information and Equipercentile Raw Scores for DAT Tests

ASVAB Shop Inform Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Verbal Reason	Verbal Reason	Verbal Reason	Mechan Reason	Mechan Reason	Space Relat
20	50	50	49-50	70	65-70	60
19	46-49	50	45-48	70	63-64	60
18	41-45	50	41-44	70	60-62	59
17	37-40	50	37-40	70	58-59	58
16	33-36	50	33-36	70	55-57	57
15	29-32	50	29-32	67-69	52-54	55-56
14	26-28	47-49	26-28	61-66	50-51	53-54
13	23-25	43-46	23-25	55-60	47-49	49-52
12	20-22	39-42	20-22	50-54	44-46	43-48
11	17-19	35-38	18-19	46-49	42-43	37-42
10	15-16	31-34	15-17	41-45	39-41	30-36
9	13-14	26-30	13-14	37-40	36-38	25-29
8	11-12	22-25	11-12	34-36	33-35	20-24
7	9-10	17-21	10	30-33	30-32	18-19
6	8	13-16	8- 9	28-29	27-29	16-17
5	7	8-12	7	25-27	24-26	15
4	6	3- 7	6	23-24	21-23	13-14
3	5	1- 2	5	21-22	18-20	1-12
2	5	0	5	20	15-17	0
1	5	0	4	19	12-14	0
0	0- 5	0	0- 4	0-18	0-11	0

Table 52. Raw Scores for ASVAB-Automotive Information and Equipercentile Raw Scores for GATB Tests

ASVAB Auto Inform Raw Scores	Equipercentile Raw Scores for GATB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Dimen Space	Dimen Space	Dimen Space	Vocab	Dimen Space	Dimen Space
20	33-40	40	32-40	38-60	34-40	40
19	32	40	31	37	32-33	40
18	31	40	30	36	30-31	40
17	29-30	40	28-29	36	28-29	39
16	28	40	27	35	26-27	37-38
15	27	40	25-26	34	24-25	35-36
14	26	38-39	24	33	22-23	34
13	24-25	35-37	23	31-32	21	32-33
12	23	33-34	21-22	30	19-20	30-31
11	21-22	30-32	20	28-29	18	28-29
10	20	28-29	19	27	16-17	26-27
9	18-19	26-27	17-18	25-26	15	24-25
8	17	23-25	16	23-24	13-14	21-23
7	15-16	21-22	14-15	20-22	12	19-20
6	14	18-20	13	18-19	11	17-18
5	12-13	16-17	12	16-17	10	14-16
4	10-11	13-15	10-11	13-15	9	12-13
3	8- 9	10-12	9	10-12	8	9-11
2	7	8- 9	7- 8	7- 9	7	7- 8
1	5- 6	5- 7	6	4- 6	6	4- 6
0	0- 4	0- 4	0- 5	0- 3	0- 5	0- 3

Table 53. Raw Scores for ASVAB-Automotive Information and Equipercentile Raw Scores for DAT Tests

ASVAB Auto Inform Raw Scores	Equipercentile Raw Scores for DAT					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Space Relat	Spell	Mechan Reason	Space Relat	Mechan Reason	Mechan Reason
20	59-60	100	65-70	60	65-70	70
19	57-58	100	64	60	64	70
18	54-56	100	63	60	63	70
17	52-53	100	61-62	60	61-62	70
16	50-51	100	60	60	60	68-69
15	47-49	100	58-59	60	59	66-67
14	45-46	100	56-57	60	57-58	64-65
13	42-44	100	54-55	57-59	55-56	62-63
12	40-41	100	52-53	54-56	53-54	60-61
11	37-39	99	50-51	50-53	52	58-59
10	34-36	97-98	47-49	47-49	50-51	56-57
9	31-33	94-96	45-46	43-46	48-49	54-55
8	28-30	88-93	42-44	39-42	45-47	48-53
7	25-27	82-87	39-41	35-38	43-44	42-47
6	22-24	73-81	36-38	30-34	41-42	37-41
5	19-21	63-72	32-35	26-29	38-40	33-36
4	15-18	50-62	29-31	21-25	36-37	28-32
3	12-14	37-49	25-28	16-20	33-35	24-27
2	8-11	21-36	21-24	11-15	30-32	22-23
1	5- 7	4-20	17-20	6-10	27-29	18-21
0	0- 4	0- 3	0-16	0- 5	0-26	0-17

Table 54. Raw Scores for GATB-Name Comparison and Equipercentile Raw Scores for ASVAB Tests

GATB Name Compar Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Oper	Numer Oper	Numer Oper	Numer Oper	Numer Oper	Numer Oper
75-150	50	50	50	50	50	50
74	50	50	50	50	50	50
73	50	50	50	50	50	50
72	50	50	50	49	50	49
71	50	50	50	49	50	49
70	50	50	50	48	50	49
69	50	50	50	48	50	49
68	49	50	50	47	50	48
67	49	49	50	47	50	47
66	49	48	50	46	49	47
65	48	48	50	46	49	46
64	48	47	49	45	48	46
63	47	46	49	45	48	45
62	47	45	48	44	47	44
61	46	44	48	43	47	44
60	46	43	47	43	46	43
59	45	43	46	42	46	43
58	45	42	46	41	45	42
57	44	41	45	41	45	41
56	44	40	44	40	44	41
55	43	39	43	39	43	40
54	42	38	43	39	43	39
53	42	38	42	38	42	38
52	41	37	41	37	41	38
51	40	36	41	36	41	37

Table 54 (continued)

GATB Name Compar Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Oper	Numer Oper	Numer Oper	Numer Oper	Numer Oper	Numer Oper
50	39	35	40	35	40	36
49	39	35	39	34	39	35
48	38	34	38	34	38	34
47	37	33	37	33	38	34
46	36	32	37	32	37	33
45	35	32	36	31	36	32
44	34	31	35	30	35	31
43	34	30	34	29	34	30
42	33	30	33	28	33	29
41	32	29	32	27	32	28
40	31	28	32	26	32	27
39	30	28	31	24-25	31	26
38	29	27	30	23	30	25
37	28	26	29	22	29	24
36	27	26	28	21	28	23
35	25-26	25	27	20	27	22
34	24	24	26	19	25-26	20-21
33	23	24	25	17-18	24	19
32	22	23	24	16	23	18
31	21	22	23	15	22	17
30	20	22	22	14	21	16
29	18-19	21	21	12-13	20	14-15
28	17	20	20	11	19	13
27	16	20	19	10	17-18	12
26	15	19	18	8-9	16	11

Table 54 (continued)

GATB Name Compar Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Oper	Numer Oper	Numer Oper	Numer Oper	Numer Oper	Numer Oper
25	13-14	19	17	7	15	9-10
24	12	18	16	6	14	8
23	11	17	15	4-5	12-13	7
22	9-10	17	14	3	11	5-6
21	8	16	13	1-2	10	4
20	6-7	16	12	0	8-9	2-3
19	5	15	11	0	7	1
18	3-4	15	10	0	6	0
17	2	14	9	0	4-5	0
16	1	14	8	0	3	0
15	0	13	6	0	1-2	0
14	0	13	5	0	0	0
13	0	12	4	0	0	0
12	0	12	3	0	0	0
11	0	11	2	0	0	0
10	0	11	1	0	0	0
9	0	10	0	0	0	0
8	0	10	0	0	0	0
7	0	9	0	0	0	0
6	0	9	0	0	0	0
5	0	9	0	0	0	0
4	0	8	0	0	0	0
3	0	8	0	0	0	0
2	0	7	0	0	0	0
1	0	7	0	0	0	0
0	0	0-6	0	0	0	0

Table 55. Raw Scores for GATB-Computation and Equipercentile Raw Scores for ASVAB Tests

GATB Comput Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Oper	Math Know	Numer Oper	Math Know	Numer Oper	Arith Reason
35-50	50	20	50	20	50	20
34	50	20	50	20	50	20
33	50	20	50	20	50	20
32	50	20	50	19	50	20
31	50	20	50	19	49	19
30	49	20	50	18	48	18
29	48	19	50	17	47	17
28	46-47	18	48-49	17	45-46	16
27	44-45	17	46-47	16	44	16
26	42-43	16	44-45	15	43	15
25	40-41	15	42-43	15	41-42	14
24	39	14	40-41	14	40	13
23	37-38	13	38-39	13	38-39	12
22	35-36	12	36-37	12	36-37	11
21	33-34	11	34-35	11	35	10
20	31-32	10	32-33	10	33-34	10
19	29-30	9	30-31	9	31-32	9
18	26-28	8	28-29	8	29-30	8
17	24-25	7	26-27	7	27-28	7
16	22-23	5-6	24-25	6	25-26	6
15	20-21	4	22-23	5	23-24	6
14	18-19	3	20-21	4	20-22	5
13	15-17	2	18-19	3	18-19	4
12	13-14	1	16-17	2	16-17	3
11	11-12	0	14-15	1	13-15	2
10	8-10	0	12-13	0	11-12	2
9	6-7	0	10-11	0	8-10	1
8	3-5	0	7-9	0	6-7	0
7	1-2	0	5-6	0	3-5	0
6	0	0	3-4	0	1-2	0
5	0	0	1-2	0	0	0
4	0	0	0	0	0	0
3	0	0	0	0	0	0
2	0	0	0	0	0	0
1	0	0	0	0	0	0
0	0	0	0	0	0	0

Table 56. Raw Scores for GATB-Dimensional Space and Equipercentile Raw Scores for ASVAB Tests

GATB Dimen Space Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Space Percep	Space Percep	Space Percep	Space Percep	Space Percep	Space Percep
35-40	20	20	20	20	20	20
34	20	20	20	20	20	20
33	20	20	20	20	19	20
32	19	20	20	20	19	20
31	19	20	19	20	19	20
30	18	19	19	20	18	20
29	18	18	18	20	18	20
28	17	18	18	20	18	20
27	16	17	17	19	17	19
26	16	16	16	18	17	18
25	15	15	15	18	16	17
24	14	15	15	17	16	16
23	14	14	14	16	15	15
22	13	13	13	15	15	15
21	12	13	13	14	14	14
20	12	12	12	13	13	13
19	11	11	11	13	13	12
18	10	10	10	12	12	11
17	9	10	10	11	11	11
16	9	9	9	10	10	10
15	8	8	8	9	9	9
14	7	8	7	8	9	8
13	7	7	6	7	8	8
12	6	6	5	6	7	7
11	5	5	5	6	6	6
10	4	5	4	5	5	5
9	4	4	3	4	4	5
8	3	3	2	3	3	4
7	2	2	1	2	2	3
6	1	2	0	1	1	3
5	1	1	0	0	0	2
4	0	0	0	0	0	1
3	0	0	0	0	0	1
2	0	0	0	0	0	0
1	0	0	0	0	0	0
0	0	0	0	0	0	0

Table 57. Raw Scores for GATB-Vocabulary and Equipercentile Raw Scores for ASVAB Tests

GATB Vocab Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Word Know	Word Know	Word Know	Word Know	Word Know	Word Know
35-60	30	30	30	30	30	30
34	30	30	30	30	30	30
33	30	30	30	30	29	30
32	29	29	30	30	29	29
31	29	28	30	30	29	29
30	28	27	29	29	28	28
29	27	26	29	28	28	28
28	27	26	28	27	27	27
27	26	25	27	26	27	26
26	26	24	27	25	26	26
25	25	23	26	24	26	25
24	24	22	25	23	25	24
23	23	21	24	22	25	23
22	23	21	23	21	24	22
21	22	20	22	20	23	22
20	21	19	22	19	22	21
19	20	18	21	18	21	20
18	19	17	20	17	20	19
17	18	16	19	16	19	17-18
16	17	15	18	15	18	16
15	16	14	17	14	17	15
14	15	13	16	13	16	14
13	14	12	15	12	15	13
12	13	11	13-14	11	14	11-12
11	11-12	10	12	11	13	10
10	10	9	11	10	11-12	9
9	9	8	10	9	10	7-8
8	8	7	9	8	9	6
7	6-7	6	8	7	7-8	4-5
6	5	5	6-7	6	6	3
5	3-4	4	5	6	4-5	2
4	2	3	4	5	3	1
3	1	2	2-3	4	2	0
2	0	1	1	4	1	0
1	0	0	0	3	0	0
0	0	0	0	0-2	0	0

Table 58. Raw Scores for GATB-Tool Matching and Equipercentile Raw Scores for ASVAB Tests

GATB Tool Match Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Oper	Numer Oper	Numer Oper	Numer Oper	Numer Oper	Numer Oper
45-49	50	50	50	50	50	50
44	50	50	50	50	50	50
43	50	50	50	50	50	50
42	50	50	50	50	50	50
41	50	48-49	50	49	50	50
40	48-49	47	50	48	50	49
39	47	45-46	50	46-47	49	48
38	45-46	44	50	45	47-48	47
37	44	42-43	48-49	44	46	47
36	42-43	41	46-47	43	44-45	45-46
35	41	40	44-45	41-42	42-43	44
34	39-40	38-39	43	40	41	43
33	38	37	41-42	38-39	39-40	41-42
32	36-37	35-36	39-40	37	37-38	40
31	34-35	34	37-38	35-36	35-36	38-39
30	33	33	35-36	33-34	34	36-37
29	31-32	31-32	33-34	32	32-33	35
28	29-30	30	31-32	30-31	30-31	33-34
27	28	28-29	29-30	28-29	28-29	31-32
26	26-27	27	28	27	25-27	28-30
25	24-25	26	26-27	25-26	23-24	26-27
24	22-23	24-25	24-25	23-24	21-22	24-25
23	20-21	23	22-23	21-22	19-20	21-23
22	19	21-22	20-21	19-20	16-18	19-20
21	17-18	20	18-19	17-18	14-15	16-18
20	15-16	19	16-17	15-16	12-13	13-15
19	13-14	17-18	15	13-14	9-11	11-12
18	11-12	16	13-14	11-12	6-8	8-10
17	9-10	14-15	11-12	9-10	4-5	5-7
16	7-8	13	9-10	7-8	1-3	1-4
15	5-6	12	7-8	4-6	0	0
14	3-4	10-11	6	2-3	0	0
13	1-2	9	4-5	1	0	0
12	0	7-8	2-3	0	0	0
11	0	6	1	0	0	0
10	0	5	0	0	0	0
9	0	3-4	0	0	0	0
8	0	2	0	0	0	0
7	0	1	0	0	0	0
0-6	0	0	0	0	0	0

Table 59. Raw Scores for GATB-Arithmetic Reasoning and Equipercentile Raw Scores for ASVAB Tests

GATB Arith Reason Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Arith Reason	Math Know	Arith Reason	Math Know	Math Know	Arith Reason
25	20	20	20	20	20	20
24	20	20	20	20	20	20
23	20	20	20	20	20	20
22	20	20	20	20	20	20
21	20	20	20	20	20	20
20	20	20	20	20	20	20
19	20	20	20	20	20	20
18	20	20	20	20	20	20
17	20	20	20	20	20	20
16	19	20	19	19	20	19
15	18	20	18	19	20	18
14	16-17	19	17	18	19	17
13	15	17-18	16	17	18	16
12	14	16	15	16	17	14
11	13	15	13-14	15	16	13
10	12	13-14	12	13-14	14-15	12
9	11	12	11	12	13	10-11
8	10	10-11	9-10	10-11	11-12	9
7	8-9	9	7-8	9	9-10	7-8
6	7	7-8	6	7-8	6-8	6
5	6	5-6	4-5	5-6	4-5	5
4	5	3-4	2-3	3-4	1-3	3-4
3	4	1-2	1	1-2	0	2
2	3	0	0	0	0	1
1	2	0	0	0	0	0
0	0-1	0	0	0	0	0

Table 60. Raw Scores for GATB-Form Matching and Equipercentile Raw Scores for ASVAB Tests

GATB Form Match Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Oper	Math Know	Space Percep	Numer Oper	Numer Oper	Math Know
45-60	50	20	20	50	50	20
44	50	20	20	50	50	20
43	50	20	20	50	50	20
42	49	20	20	50	50	20
41	49	20	20	50	50	20
40	48	19	20	50	50	20
39	47	19	19	50	50	20
38	46	19	19	50	50	20
37	45	19	18	49	49	19
36	44	18	18	48	47-48	18
35	44	18	17	48	46	18
34	42-43	17	16	47	45	17
33	41	17	15	45-46	44	16
32	40	16	15	44	43	16
31	39	16	14	43	41-42	15
30	38	15	13	42	40	14
29	37	14	13	40-41	39	13
28	35-36	13	12	39	37-38	13
27	34	13	11	37-38	36	12
26	33	12	10	36	35	11
25	31-32	11	10	34-35	33-34	10
24	30	10	9	32-33	31-32	9
23	29	9	8	30-31	30	8
22	27-28	8	8	28-29	28-29	8
21	25-26	7	7	26-27	26-27	7

Table 60 (continued)

GATB Form Match Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Numer Oper	Math Know	Space Percep	Numer Oper	Numer Oper	Math Know
20	24	6	6	24-25	25	6
19	22-23	4-5	5	22-23	23-24	5
18	21	3	5	20-21	21-22	4
17	19-20	2	4	18-19	19-20	3
16	17-18	1	3	15-17	17-18	2
15	15-16	0	2	13-14	16	1
14	14	0	2	10-12	14-15	0
13	12-13	0	1	8-9	12-13	0
12	10-11	0	0	5-7	10-11	0
11	8-9	0	0	2-4	7-9	0
10	6-7	0	0	1	5-6	0
9	4-5	0	0	0	3-4	0
8	2-3	0	0	0	2	0
7	1	0	0	0	1	0
6	0	0	0	0	0	0
5	0	0	0	0	0	0
4	0	0	0	0	0	0
3	0	0	0	0	0	0
2	0	0	0	0	0	0
1	0	0	0	0	0	0
0	0	0	0	0	0	0

Table 61. Raw Scores for GATB-Mark Making and Equipercentile Raw Scores for ASVAB Tests

GATB Mark Making Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Attn to Detail	Attn to Detail	Numer Oper	Attn to Detail	Numer Oper	Attn to Detail
110-150	30	30	50	30	50	30
109	30	29	50	30	50	30
108	30	29	50	30	50	30
107	30	29	50	30	50	30
106	30	29	50	30	50	30
105	30	29	50	30	50	30
104	30	28	50	30	50	30
103	30	28	50	30	50	30
102	30	28	50	30	50	30
101	30	28	50	30	50	30
100	30	28	50	30	50	30
99	30	27	50	30	50	30
98	29	27	50	30	50	30
97	28	27	50	29	50	30
96	28	27	50	29	50	30
95	27	26	50	28	50	30
94	27	26	50	28	50	30
93	26	26	50	27	50	29
92	26	25	50	27	50	29
91	25	25	50	26	50	28
90	25	25	50	26	50	27
89	24	24	50	25	50	26
88	23	24	50	24	50	25
87	23	24	50	24	50	24
86	22	23	50	23	50	23
85	22	23	50	23	50	23
84	21	23	50	22	50	22
83	21	22	50	22	50	21
82	20	22	50	21	49	20
81	20	21	50	21	48	20

Table 61 (continued)

GATB Mark Making Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Attn to Detail	Attn to Detail	Numer Oper	Attn to Detail	Numer Oper	Attn to Detail
80	19	21	49	20	48	19
79	19	21	47-48	19	47	18
78	18	20	46	19	46	18
77	18	20	45	18	45	17
76	17	19	44	18	44	16
75	17	19	42-43	17	43	16
74	16	18	41	17	42	15
73	16	18	40	16	41	15
72	15	17	39	15	40	14
71	15	17	38	15	39	13
70	14	16	37	14	38	13
69	14	16	35-36	14	37	13
68	13	15	34	13	36	12
67	13	15	33	12	35	12
66	12	14	32	12	34	11
65	12	14	31	11	33	11
64	12	13	30	11	32	10
63	11	12	29	10	31	10
62	11	12	28	9	30	10
61	10	11	26-27	9	29	9
60	10	11	25	8	28	9
59	9	10	24	8	27	9
58	9	9	23	7	25-26	9
57	9	9	22	6	24	8
56	8	8	21	6	23	8
55	8	7	20	5	22	8
54	7	7	19	5	21	8
53	7	6	18	4	20	8
52	7	5	17	3	18-19	7
51	6	5	16	3	17	7

Table 61 (continued)

GATB Mark Making Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Attn to Detail	Attn to Detail	Numer Oper	Attn to Detail	Numer Oper	Attn to Detail
50	6	4	15	2	16	7
49	6	3	14	1	15	7
48	5	2	13	1	13-14	7
47	5	2	12	0	12	7
46	4	1	11	0	11	7
45	4	0	10	0	9-10	0
44	4	0	9	0	8	0
43	3	0	8	0	7	0
42	3	0	7	0	5-6	0
41	3	0	6	0	4	0
40	2	0	5	0	3	0
39	2	0	5	0	2	0
38	2	0	4	0	1	0
37	1	0	3	0	0	0
36	1	0	2	0	0	0
35	1	0	1	0	0	0
34	1	0	0	0	0	0
33	0	0	0	0	0	0
32	0	0	0	0	0	0
0-31	0	0	0	0	0	0

Table 62. Raw Scores for DAT-Verbal Reasoning and Equipercentile Raw Scores for ASVAB Tests

DAT Verbal Reason Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Word Know	Word Know	Word Know	Word Know	Math Know	Word Know
50	30	29-30	29-30	29-30	19-20	29-30
49	29	28	28	29	19	29
48	29	28	28	28	19	28
47	29	28	28	28	19	28
46	29	27	27	27	19	28
45	28	27	27	27	19	27
44	28	26	27	26	19	27
43	27	26	26	26	19	26
42	27	25	26	25	18	26
41	27	25	26	25	18	26
40	26	24	25	25	18	25
39	26	24	25	24	18	25
38	26	24	25	24	18	24
37	25	23	24	23	17	24
36	25	23	24	23	17	24
35	24	22	23	22	17	23
34	24	22	23	22	16	23
33	23	21	22	21	16	22
32	23	21	22	21	16	22
31	22	20	21	20	15	21
30	22	20	21	20	15	21
29	22	19	21	19	15	20
28	21	19	20	19	14	20
27	20	18	20	18	14	19
26	20	18	19	18	13	19
25	19	17	18	17	13	18
24	19	17	18	17	12	18
23	18	16	17	17	12	17
22	17	16	17	16	11	17
21	17	15	16	16	11	16

Table 62 (continued)

DAT Verbal Reason Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Word Know	Word Know	Word Know	Word Know	Math Know	Word Know
20	16	15	16	15	10	16
19	15	14	15	15	10	15
18	15	14	15	14	9	14
17	14	13	14	14	9	14
16	13	13	13	13	8	13
15	13	12	13	13	7	13
14	12	12	12	12	7	12
13	11	11	11	12	6	12
12	10	11	11	11	5	11
11	10	10	10	11	5	10
10	9	9	9	10	4	10
9	8	9	9	10	3	9
8	7	8	8	9	2	8
7	6	8	7	9	2	8
6	6	7	7	8	1	7
5	5	7	6	8	0	6
4	4	6	5	7	0	6
3	3	6	4	7	0	5
2	2	5	4	6	0	4
1	1	5	3	6	0	4
0	0	0-4	0-3	0-5	0	0-3

Table 63. Raw Scores for DAT-Numerical Ability and Equipercentile Raw Scores for ASVAB Tests

DAT Numer Ability Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Math Know	Math Know	Math Know	Math Know	Math Know	Math Know
40	20	20	20	20	19-20	20
39	20	20	20	20	19	20
38	20	20	20	19	19	20
37	19	19	20	19	19	20
36	19	19	19	19	19	19
35	19	19	19	19	18	19
34	18	18	19	18	18	18
33	18	18	18	18	18	18
32	17	18	18	17	17	18
31	17	17	17	17	17	17
30	17	17	17	17	17	17
29	16	17	17	16	16	16
28	16	16	16	16	16	16
27	15	16	16	16	16	15
26	15	15	15	15	15	15
25	14	15	15	15	15	14
24	14	14	15	14	14	14
23	13	14	14	14	14	13
22	13	13	14	13	14	13
21	12	12	13	13	13	12
20	12	12	13	12	13	12
19	11	11	12	12	12	11
18	11	11	12	11	12	11
17	10	10	11	11	11	10
16	10	9	10	10	11	10
15	9	9	10	9	10	9
14	8	8	9	9	9	9
13	8	7	9	8	9	8
12	7	6	8	8	8	7
11	7	6	8	7	8	7
10	6	5	7	6	7	7
9	5	4	6	6	6	6
8	5	3	6	5	6	6
7	4	2	5	4	5	5
6	3	2	4	4	4	4
5	3	1	4	3	4	4
4	2	0	3	2	3	3
3	1	0	2	2	2	3
2	0	0	2	1	2	2
1	0	0	1	0	1	1
0	0	0	0	0	0	0-1

Table 64. Raw Scores for DAT-Abstract Reasoning and Equipercentile Raw Scores for ASVAB Tests

DAT Abstr Reason Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Math Know	Math Know	Arith Reason	Math Know	Math Know	Math Know
50	20	20	20	20	20	20
49	20	20	20	20	20	20
48	20	20	20	20	20	20
47	20	20	20	20	20	20
46	19	19	19	20	19	20
45	19	18	18	19	19	19
44	18	18	18	18	18	19
43	17	17	17	18	17	18
42	17	17	16	17	17	17
41	16	16	16	16	16	16
40	15	15	15	16	15	15
39	15	15	14	15	15	14
38	14	14	14	14	14	14
37	14	14	13	14	13	13
36	13	13	13	13	13	12
35	12	13	12	13	12	12
34	12	12	12	12	12	11
33	11	12	11	12	11	10
32	11	11	11	11	11	10
31	10	11	10	10	10	9
30	10	10	10	10	10	9
29	9	10	9	9	9	8
28	9	9	9	9	9	8
27	8	9	8	9	8	7
26	8	8	8	8	8	7
25	7	8	8	8	8	6
24	7	7	7	7	7	6
23	6	7	7	7	7	6
22	6	6	7	6	7	5
21	6	6	6	6	6	5

Table 64 (continued)

DAT Abstr Reason Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Math Know	Math Know	Arith Reason	Math Know	Math Know	Math Know
20	5	5	6	6	6	5
19	5	5	6	5	6	4
18	5	4	6	5	6	4
17	4	4	5	5	5	4
16	4	3	5	4	5	4
15	3	3	5	4	5	4
14	3	2	4	4	5	4
13	3	2	4	3	5	4
12	3	2	4	3	5	3
11	2	1	4	3	5	1-3
10	2	1	4	3	4	0
9	2	0	4	2	4	0
8	2	0	4	2	4	0
7	1	0	4	2	4	0
6	1	0	3	2	1-4	0
5	1	0	3	2	0	0
4	1	0	3	1	0	0
3	1	0	3	1	0	0
2	0	0	3	1	0	0
1	0	0	3	1	0	0
0	0	0	0-3	0-1	0	0

Table 65. Raw Scores for DAT-Clerical Speed and Equipercentile Raw Scores for ASVAB Tests

DAT Cleric Speed Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Attn to Detail	Attn to Detail	Attn to Detail	Attn to Detail	Attn to Detail	Attn to Detail
100	30	30	30	30	30	30
99	30	30	30	30	30	30
98	30	30	30	30	30	30
97	30	30	30	30	30	30
96	30	30	30	30	30	30
95	30	30	30	29	30	30
94	30	30	30	29	30	30
93	30	30	29	29	30	30
92	30	29	29	29	30	29
91	30	29	29	28	30	29
90	30	29	28	28	30	28
89	30	29	28	28	30	28
88	30	28	28	28	30	28
87	30	28	28	27	29	27
86	30	28	27	27	29	27
85	30	27	27	27	29	27
84	30	27	27	26	28	26
83	30	27	26	26	28	26
82	30	27	26	26	28	26
81	30	26	26	26	27	25
80	30	26	25	25	27	25
79	30	26	25	25	26	24
78	30	25	25	25	26	24
77	30	25	24	24	26	24
76	30	25	24	24	25	23
75	30	25	24	24	25	23
74	30	24	23	23	24	23
73	30	24	23	23	24	22
72	30	24	23	23	24	22
71	30	23	22	23	23	22
70	29	23	22	22	23	21
69	28	23	22	22	23	21
68	28	22	22	22	22	21
67	27	22	21	21	22	20
66	27	22	21	21	22	20

Table 65 (continued)

DAT Cleric Speed Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Attn to Detail	Attn to Detail	Attn to Detail	Attn to Detail	Attn to Detail	Attn to Detail
65	26	22	20	21	21	20
64	25	21	20	20	21	19
63	25	21	20	20	20	19
62	24	21	19	20	20	19
61	24	20	19	19	20	18
60	23	20	19	19	19	18
59	22	20	19	19	19	18
58	22	20	18	18	19	17
57	21	19	18	18	18	17
56	21	19	17	17	18	16
55	20	19	17	17	18	16
54	19	18	17	17	17	16
53	19	18	16	16	17	16
52	18	18	16	16	17	15
51	18	17	16	16	16	15
50	17	17	15	15	16	15
49	17	17	15	15	15	14
48	16	17	15	14	15	14
47	16	16	14	14	15	14
46	15	16	14	14	14	13
45	15	16	13	13	14	13
44	14	15	13	13	14	13
43	14	15	13	13	13	12
42	13	15	12	12	13	12
41	13	15	12	12	13	12
40	12	14	11	11	12	11
39	12	14	11	11	12	11
38	11	14	11	11	12	11
37	11	13	10	10	11	10
36	10	13	10	10	11	10
35	10	13	10	9	11	10
34	10	12	9	9	10	9
33	9	12	9	8	10	9
32	9	12	8	8	10	9
31	8	11	8	8	9	8

Table 65 (continued)

DAT Cleric Speed Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Attn to Detail	Attn to Detail	Attn to Detail	Attn to Detail	Attn to Detail	Attn to Detail
30	8	11	8	7	9	8
29	7	11	7	7	9	8
28	7	11	7	6	8	8
27	6	11	6	6	8	7
26	6	10	6	5	8	7
25	6	10	6	5	8	7
24	5	9	5	4	7	6
23	5	9	5	4	7	6
22	4	9	4	4	7	6
21	4	8	4	3	6	5
20	4	8	3	3	6	5
19	3	8	3	2	6	5
18	3	8	3	2	5	5
17	2	7	2	1	5	4
16	2	7	2	1	5	4
15	2	7	1	0	4	4
14	1	6	1	0	4	3
13	1	6	1	0	4	3
12	0	6	0	0	3	3
11	0	5	0	0	3	3
10	0	5	0	0	3	2
9	0	5	0	0	3	2
8	0	4	0	0	2	2
7	0	4	0	0	2	1
6	0	4	0	0	2	1
5	0	3	0	0	1	1
4	0	3	0	0	1	1
3	0	3	0	0	1	0
2	0	3	0	0	1	0
1	0	2	0	0	0	0
0	0	0-2	0	0	0	0

Table 66. Raw Scores for DAT-Mechanical Reasoning and Equipercentile Raw Scores for ASVAB Tests

DAT Mechan Reason Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Mechan Compr	Mechan Compr	Mechan Compr	Math Know	Mechan Compr	Math Know
70	20	19-20	20	20	20	20
69	20	18	20	20	20	20
68	20	18	20	20	20	20
67	20	17	20	20	20	20
66	20	17	20	20	20	20
65	19	16	19	20	19	20
64	19	16	19	20	19	20
63	18	15	18	20	18	20
62	17	15	17	20	18	20
61	17	14	17	20	17	20
60	16	14	16	20	17	20
59	15	14	16	20	16	20
58	15	13	15	20	16	20
57	14	13	15	20	15	20
56	14	12	14	19	15	20
55	13	12	14	19	14	20
54	13	12	13	19	14	19
53	12	11	13	19	13	19
52	12	11	12	19	13	18
51	11	10	12	18	12	18
50	11	10	11	18	12	18
49	10	10	11	18	11	17
48	10	9	10	18	11	17
47	9	9	10	17	10	16
46	9	9	10	17	10	16
45	8	8	9	17	9	16
44	8	8	9	16	9	15
43	7	8	8	16	9	15
42	7	7	8	15	8	14
41	7	7	8	15	8	14

Table 66 (continued)

DAT Mechan Reason Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Mechan Compr	Mechan Compr	Mechan Compr	Math Know	Mechan Compr	Math Know
40	6	7	8	14	7	13
39	6	6	7	14	7	13
38	6	6	7	14	7	13
37	5	6	7	13	6	12
36	5	6	6	13	6	12
35	5	5	6	12	5	11
34	4	5	6	12	5	11
33	4	5	6	11	5	10
32	4	5	5	10	4	10
31	4	4	5	10	4	9
30	3	4	5	9	4	9
29	3	4	5	9	3	9
28	3	4	5	8	3	8
27	3	3	4	7	3	8
26	2	3	4	7	2	7
25	2	3	4	6	2	7
24	2	3	4	5	2	6
23	2	2	4	5	1	6
22	2	2	4	4	1	5
21	2	2	4	3	1	5
20	2	2	4	2	1	4
19	1	2	4	1	0	4
18	1	2	3	1	0	3
17	1	1	3	0	0	3
16	1	1	3	0	0	2
15	1	1	3	0	0	2
14	1	1	3	0	0	1
13	1	1	2	0	0	1
12	1	1	1	0	0	0
0-11	0	0	0	0	0	0

Table 67. Raw Scores for DAT-Space Relations and Equipercentile Raw Scores for ASVAB Tests

DAT Space Relat Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Mechan Compr	Space Percep	Space Percep	Space Percep	Space Percep	Space Percep
60	19-20	19-20	19-20	20	20	20
59	19	19	19	20	20	20
58	19	19	19	20	19	20
57	18	18	18	20	19	20
56	18	18	18	20	19	20
55	18	18	18	19	19	20
54	18	17	18	19	18	19
53	17	17	17	18	18	19
52	17	17	17	18	18	18
51	17	16	17	18	17	18
50	16	16	17	18	17	18
49	16	16	16	17	17	17
48	15	15	16	17	16	17
47	15	15	16	16	16	17
46	15	15	16	16	16	16
45	15	14	16	16	15	16
44	14	14	15	15	15	16
43	14	14	15	15	15	15
42	14	13	14	15	14	15
41	13	13	14	14	14	15
40	13	13	14	14	14	14
39	13	12	13	14	13	14
38	12	12	13	13	13	14
37	12	12	13	13	13	13
36	12	11	12	12	12	13
35	11	11	12	12	12	13
34	11	11	12	12	12	12
33	11	10	11	11	11	12
32	10	10	11	11	11	11
31	10	10	11	10	10	11

Table 67 (continued)

DAT Space Relat Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Mechan Compr	Space Percep	Space Percep	Space Percep	Space Percep	Space Percep
30	10	9	10	10	10	11
29	9	9	10	10	10	10
28	9	9	9	9	10	10
27	9	9	9	9	9	9
26	8	8	9	9	9	9
25	8	8	8	8	8	9
24	7	8	8	8	8	8
23	7	7	7	7	7	8
22	7	7	7	7	7	8
21	6	7	7	7	7	7
20	6	6	6	6	6	7
19	6	6	6	6	6	6
18	5	6	5	5	6	6
17	5	5	5	5	5	5
16	4	5	4	5	5	5
15	4	5	4	4	4	5
14	4	4	3	4	4	4
13	3	4	3	3	4	4
12	3	4	2	3	3	3
11	2	3	2	3	3	3
10	2	3	2	2	2	2
9	1	3	1	2	2	2
8	1	2	1	1	1	2
7	1	2	0	1	1	1
6	0	2	0	1	1	1
5	0	1	0	0	0	0
4	0	1	0	0	0	0
3	0	1	0	0	0	0
2	0	0	0	0	0	0
1	0	0	0	0	0	0
0	0	0	0	0	0	0

Table 68. Raw Scores for DAT-Spelling and Equipercentile Raw Scores for ASVAB Tests

DAT Spell Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Word Know	Word Know	Word Know	Word Know	Math Know	Numer Oper
100	30	30	30	30	20	50
99	30	29	29	30	20	50
98	29	29	29	30	20	50
97	29	28	29	29	20	50
96	29	27	28	29	19	50
95	29	26	28	28	19	50
94	28	26	28	27	19	50
93	28	25	28	26	19	50
92	28	25	27	26	19	49
91	27	24	27	25	19	48
90	27	24	27	24	19	47
89	27	23	26	24	18	46
88	26	23	26	23	18	45
87	26	22	26	22	18	44
86	26	21	25	22	18	43
85	26	21	25	21	18	42
84	25	20	25	20	17	41
83	25	20	24	20	17	40
82	25	19	24	19	17	40
81	24	19	24	19	17	39
80	24	18	24	18	17	38
79	24	18	23	18	16	37
78	23	17	23	17	16	36
77	23	17	23	16	16	35
76	23	17	22	16	16	35
75	23	16	22	16	16	34
74	22	16	22	15	15	33
73	22	15	21	15	15	32
72	22	15	21	14	15	32
71	21	15	21	14	15	31
70	21	14	20	13	15	30
69	21	14	20	13	14	30
68	20	13	20	13	14	29
67	20	13	19	12	14	28
66	20	13	19	12	14	28

Table 68 (continued)

DAT Spell Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Word Know	Word Know	Word Know	Word Know	Math Know	Numer Oper
65	19	12	19	12	13	27
64	19	12	18	11	13	26
63	19	12	18	11	13	26
62	18	11	18	11	13	25
61	18	11	18	11	12	25
60	18	11	17	10	12	24
59	17	11	17	10	12	24
58	17	10	17	10	12	23
57	17	10	16	10	11	23
56	17	10	16	9	11	22
55	16	10	16	9	11	22
54	16	9	15	9	11	21
53	16	9	15	9	10	21
52	15	9	15	9	10	20
51	15	9	14	9	10	20
50	15	8	14	9	9	20
49	14	8	14	9	9	19
48	14	8	13	9	9	19
47	14	8	13	9	9	18
46	13	8	13	9	8	18
45	13	8	12	8	8	18
44	13	8	12	8	8	18
43	12	7	12	7	7	17
42	12	7	11	6	7	17
41	12	7	11	5	7	17
40	11	7	11	4	6	16
39	11	7	10	3	6	16
38	11	7	10	2	6	16
37	10	7	10	1	5	16
36	10	7	9	0	5	16
35	10	7	9	0	5	15
34	9	7	9	0	4	15
33	9	7	8	0	4	15
32	9	7	8	0	4	15
31	8	7	8	0	3	15

Table 68 (continued)

DAT Spell Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Word Know	Word Know	Word Know	Word Know	Math Know	Numer Oper
30	8	6	7	0	3	15
29	8	5	7	0	3	15
28	7	4	7	0	2	14
27	7	3	6	0	2	14
26	7	1-2	6	0	2	14
25	6	0	6	0	1	14
24	6	0	5	0	1	14
23	6	0	5	0	1	0
22	5	0	5	0	0	0
21	5	0	4	0	0	0
20	4	0	4	0	0	0
19	4	0	4	0	0	0
18	4	0	3	0	0	0
17	3	0	3	0	0	0
16	3	0	3	0	0	0
15	3	0	2	0	0	0
14	2	0	2	0	0	0
13	2	0	2	0	0	0
12	2	0	1	0	0	0
11	1	0	1	0	0	0
10	1	0	1	0	0	0
9	1	0	0	0	0	0
8	0	0	0	0	0	0
7	0	0	0	0	0	0
6	0	0	0	0	0	0
5	0	0	0	0	0	0
4	0	0	0	0	0	0
3	0	0	0	0	0	0
2	0	0	0	0	0	0
1	0	0	0	0	0	0
0	0	0	0	0	0	0

Table 69. Raw Scores for DAT-Language Usage and Equipercentile Raw Scores for ASVAB Tests

DAT Lang Usage Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Word Know	Word Know	Word Know	Word Know	Word Know	Word Know
60	30	30	30	30	30	30
59	30	30	30	30	30	30
58	30	30	30	30	30	30
57	30	30	30	30	30	30
56	30	30	30	30	30	30
55	30	30	29	30	30	30
54	30	29	29	29	30	30
53	30	29	29	29	29	29
52	30	28	29	28	29	29
51	29	27	29	28	29	28
50	29	27	28	27	28	28
49	28	26	28	27	28	27
48	28	26	28	26	28	27
47	28	25	27	26	27	26
46	27	25	27	25	27	26
45	27	24	27	24	27	25
44	26	23	26	24	26	25
43	26	23	26	23	26	24
42	26	22	26	23	25	24
41	25	22	25	22	25	23
40	25	21	25	22	25	22
39	24	21	24	21	24	22
38	24	20	24	21	24	21
37	23	19	24	20	23	21
36	23	19	23	20	23	20
35	22	18	23	19	22	19
34	22	18	22	18	22	19
33	21	17	22	18	21	18
32	21	17	21	17	21	17
31	20	16	20	17	20	17

Table 69 (continued)

DAT Lang Usage Raw Scores	Equipercentile Raw Scores for ASVAB					
	Tenth Grade		Eleventh Grade		Twelfth Grade	
	Male	Female	Male	Female	Male	Female
	Word Know	Word Know	Word Know	Word Know	Word Know	Word Know
30	19	15	20	16	20	16
29	19	15	19	15	19	15
28	18	14	18	15	18	15
27	18	14	18	14	18	14
26	17	13	17	14	17	13
25	16	13	17	13	17	12
24	16	12	16	12	16	12
23	15	11	16	12	15	11
22	15	11	15	11	15	10
21	14	10	14	11	14	9
20	13	10	13	10	13	8
19	13	9	13	9	13	8
18	12	9	12	9	12	7
17	11	8	11	8	11	6
16	10	7	10	7	11	5
15	10	7	9	7	10	4
14	9	6	9	6	9	4
13	8	6	8	5	8	3
12	7	5	7	5	8	2
11	7	5	6	4	7	1
10	6	4	5	3	6	0
9	5	3	4	3	5	0
8	4	3	3	2	4	0
7	4	2	2	1	4	0
6	3	2	1	1	3	0
5	2	1	0	0	2	0
4	1	0	0	0	1	0
3	0	0	0	0	0	0
2	0	0	0	0	0	0
1	0	0	0	0	0	0
0	0	0	0	0	0	0

REFERENCES

Bennett, G. K., Seashore, H. G., & Wesman, A. G. Manual for the Differential Aptitude Tests. (5th ed.). New York: The Psychological Corporation, 1974.

Lindsay, C. A., & Prichard, M. A. An analytic procedure for the equipercentile method of equating tests. Journal of Educational Measurement, Fall 1971, 8(3), 203-207.

United States Department of Defense. Counselor's Manual: Armed Services Vocational Aptitude Manual. Washington: U.S. Government Printing Office, 1976.

United States Department of Labor, Manpower Administration. Manual for the USTES General Aptitude Test Battery. Washington: U.S. Government Printing Office, 1970.

☆U.S. GOVERNMENT PRINTING OFFICE: 1977-771-057/17